

# Permit to Operate

**FACILITY:** S-1246

**EXPIRATION DATE:** 03/31/200

**LEGAL OWNER OR OPERATOR:** BERRY PETROLEUM COMPANY

**MAILING ADDRESS:** P O BOX 925  
TAFT, CA 93268-0925

**FACILITY LOCATION:** HEAVY OIL WESTERN  
, CA

**FACILITY DESCRIPTION:** OIL AND NATURAL GAS PRODUCTION

The Facility to Operate may include Facility-wide Requirements as well as requirements that apply to specific permit units.

The Permit to Operate remains valid through the permit expiration date listed above, subject to payment of annual permit fees and compliance with permit conditions and all applicable local, state, and federal regulations. This permit is valid only at the location specified above, and becomes void upon any transfer of ownership or location. Any modification of the equipment or operation, as defined in District Rule 2201, will require prior District approval. This permit shall be posted as prescribed in District Rule 2010.

**DAVID L. CROW**

Executive Director / APCO

**Seyed Sadredin**

Director of Permit Services

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-0-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

## **PERMIT UNIT REQUIREMENTS**

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)], [Federally Enforceable Through Title V]
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)], [Federally Enforceable Through Title V]
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0], [Federally Enforceable Through Title V]
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020. [District Rule 2010, 3.0 and 4.0; 2020], [Federally Enforceable Through Title V]
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.9.1 and 9.13.1], [Federally Enforceable Through Title V]
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031], [Federally Enforceable Through Title V]
7. Every application for a permit required under Rule 2010 (Permits Required) shall be filed in a manner and form prescribed by the District. [District Rule 2040], [Federally Enforceable Through Title V]
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.5.1], [Federally Enforceable Through Title V]
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.5.2], [Federally Enforceable Through Title V]
10. The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.6.1], [Federally Enforceable Through Title V]
11. Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520. [District Rules 2520, 9.6.2 and 1100, 7.0], [Federally Enforceable Through Title V]
12. If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.8], [Federally Enforceable Through Title V]

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13. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.9.1], [Federally Enforceable Through Title V]
14. The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.9.3], [Federally Enforceable Through Title V]
15. The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.9.4], [Federally Enforceable Through Title V]
16. The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.9.5], [Federally Enforceable Through Title V]
17. The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.10], [Federally Enforceable Through Title V]
18. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.14.2.1], [Federally Enforceable Through Title V]
19. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.14.2.2], [Federally Enforceable Through Title V]
20. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.14.2.3], [Federally Enforceable Through Title V]
21. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.14.2.4], [Federally Enforceable Through Title V]
22. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101, by using EPA method 9. If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and County Rules 401 (in all eight counties in the San Joaquin Valley)], [Federally Enforceable Through Title V]
23. No person shall supply, sell, solicit or apply any architectural coating, except specialty coatings, that contains more than 250 grams of VOC per liter of coating (less water and exempt compounds, and excluding any colorant added to tint bases), or manufacture, blend, or repackage such coating with more than 250 grams of VOC per liter (less water and exempt compounds, and excluding any colorant added to tint bases) for use within the District. [District Rule 4601, 5.1], [Federally Enforceable Through Title V]
24. Special Coating Limitations: No person shall apply, sell, solicit, or offer for sale any specialty architectural coating listed in the Table of Standards (District Rule 4601, Table 1 and Table 2), nor manufacture, blend, or repackage such coating for use within the District, which contains VOCs (less water and exempt compounds, excluding any colorant added to tint bases) in excess of the specified limits listed in Table 1 (grams of VOC per liter of coating as applied less water and exempt compounds, excluding any colorant added to tint bases) and in Table 2 (grams of VOC per liter of material), except as provided in Section 5.3 of Rule 4601. [District Rule 4601, 5.2], [Federally Enforceable Through Title V]
25. All VOC-containing materials shall be stored in closed containers when not in use. In use includes, but is not limited to: being accessed, filled, emptied, maintained or repaired. [District Rule 4601, 5.4], [Federally Enforceable Through Title V]
26. A person shall not use VOCs for the cleanup of spray equipment unless equipment for collection of the cleaning compounds and minimizing its evaporation to the atmosphere is used. [District Rule 4601, 5.5], [Federally Enforceable Through Title V]
27. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.2. [District Rule 4601, 6.1 and 6.2], [Federally Enforceable Through Title V]
28. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.14.1 and 10.0], [Federally Enforceable Through Title V]
29. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F], [Federally Enforceable Through Title V]

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30. If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart F. [40 CFR Part 82, Subpart F], [Federally Enforceable Through Title V]
31. Disturbances of soil related to any construction, demolition, excavation, extraction, or water mining activities shall comply with the requirements for fugitive dust control in SJVUAPCD District Rule 8020, unless specifically exempted under section 4 of Rule 8020. [District Rule 8020], [Federally Enforceable Through Title V]
32. Outdoor handling and storage of any bulk material which emits dust shall comply with the requirements of SJVUAPCD Rule 8030, unless specifically exempted under section 4 of Rule 8030. [District Rule 8030], [Federally Enforceable Through Title V]
33. Any paved road over 3 miles in length, and any unpaved roads over half a mile in length, constructed after October 10, 1993 shall use the design criteria and dust control measures of, and comply with the administrative requirements of, SJVUAPCD Rule 8060 unless specifically exempted under section 4 of Rule 8060. [District Rule 8060], [Federally Enforceable Through Title V]
34. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M], [Federally Enforceable Through Title V]
35. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.17], [Federally Enforceable Through Title V]
36. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2], [Federally Enforceable Through Title V]
37. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permit shall apply. [District Rule 2520, 9.1.1], [Federally Enforceable Through Title V]
38. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
39. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (12/17/92); 4601, sections 5.1, 5.2, 5.4, 5.5, 6.1, and 6.2 (9/17/97); 8020 (4/25/96); 8030 (4/25/96); 8060 (4/25/96); A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
40. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
41. All permits for facilities #S-1246 and #S-2265 are included in Berry Petroleum Company's Heavy Oil Western stationary source. [District NSR Rule], [Federally Enforceable Through Title V]
42. Should the facility, as defined in 40 CFR 68.3, become subject to Part 68, then the owner or operator shall submit a risk management plan (RMP) by the date specified in 40 CFR 68.10. The facility shall certify compliance as part of the annual certification as required by 40 CFR part 70. [40 CFR 68], [Federally Enforceable Through Title V]
43. On May 31, 2001, the initial Title V permit was issued, the reporting periods for the Report of Required Monitoring and the Compliance Certification Report are based upon this initial permit issuance date, unless alternative dates are approved by the District Compliance Division. This reports are due within 30 days of the end of reporting period. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-1-6

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

25.2 MMBTU/HR REPLACEMENT STANDBY STEAM GENERATOR (B & E LEASE)

## PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grain/dscf, nor 0.1 grain/dscf as calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
2. Sulfur compound emissions shall not exceed 2000 ppmv (or 0.2% by volume) calculated as sulfur dioxide (SO<sub>2</sub>), on a dry basis average over 15 consecutive minutes. [District Rule 4801, Kern County Rule 407, and District Rule 4301, 5.2.1], [Federally Enforceable Through Title V]
3. If continuous operation oxygen analyzer/controller is utilized, excess O<sub>2</sub> shall be maintained between 0.5 and 3.0%. If not utilized, excess air shall be maintained at no less than 15%. [District Rule 4405 and District NSR Rule], [Federally Enforceable Through Title V]
4. Fuel oil preheat and atomization equipment shall be operated and maintained as intended by manufacturer. [District NSR Rule], [Federally Enforceable Through Title V]
5. Fuel oil sulfur content shall not exceed 1.27% by weight. [District NSR Rule], [Federally Enforceable Through Title V]
6. Excess combustion air level must be checked daily and adjusted if needed. [District NSR Rule], [Federally Enforceable Through Title V]
7. Fuel usage shall be less than 90 billion BTU per calendar year. [District Rule 4305]
8. This permit unit shall only operate during breakdown or maintenance of the primary permit unit S-2265-1. [District Rule 4305]
9. This permit unit shall not operate simultaneously with the primary permit unit S-2265-1 except during start-up or shutdown of the primary unit. [District Rule 4305]
10. Permittee shall either tune the unit at least once each calendar year in which it operates by a technician that is qualified in accordance with the procedure described in District Rule 4304, or operate the unit in a manner that maintains exhaust O<sub>2</sub> at less than or equal to 3.00% by volume on a dry basis. [District Rule 4305]
11. Permittee shall maintain accurate records of annual fuel usage, fuel heat content, and name and company of technician (if any) tuning the unit and make such records readily available for District inspection upon request. [District Rule 2520, 9.4.2 and District Rule 4305], [Federally Enforceable Through Title V]
12. The operator shall do one of the following: fire the unit only on PUC-regulated natural gas; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 1.27% by weight for fuel oil and 3.3% for natural gas. [Kern County Rule 407, District Rule 4801, District Rule 4301, 5.2.1 and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. Sulfur emissions shall not exceed 0.11 lb of sulfur per million BTU of heat input, averaged over 3 - one hour periods. Compliance with this requirement may be demonstrated by firing the unit only on PUC-regulated natural gas; multiplying the reported sulfur content of each fuel in lb/MMBtu by the maximum heat input rating of the unit; or by a combination of source testing for sulfur compounds and fuel analysis. Compliance may be demonstrated for this unit individually, or by showing that the total emissions of sulfur compounds from all steam generators located at the stationary source with ATC or PTO issued prior to September 12, 1979 does not exceed the emissions that would result if each unit was operating in compliance with the specified limit. [Kern County Rule 424 and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
14. NO<sub>x</sub> emissions shall not exceed 0.40 lb/MMBtu of heat input when firing on fuel oil. Compliance may be demonstrated through supplier certification of nitrogen content and heating value or by weekly fuel testing for nitrogen content and heating value. NO<sub>x</sub> emissions shall be calculated using the heating value and the following formula:  $\text{lb NO}_2/1000 \text{ gal} = 20.54 + 104.39(N)$ , where N is the weight % nitrogen in the fuel. If compliance with NO<sub>x</sub> emission limit is demonstrated for eight consecutive weeks for a fuel source, then the fuel testing frequency shall be bi-annually. If bi-annual fuel content source test fails to show compliance, weekly testing shall resume. [Kern County Rule 425, District Rules 4301 and 2520, 9.4.2], [Federally Enforceable Through Title V]
15. When complying with sulfur emission limits by fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

16. Sulfur content of the fuel firing on this unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory for gaseous fuel and ASTM D 2880-71 for liquid fuel. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. If the unit is fired on fuel oil for more than 168,000 gallons (operated 1,000 hours on fuel oil) in any one calendar year, source testing shall be performed using EPA Method 5 while firing on fuel oil to demonstrate compliance with PM emission limits. If source testing is required, it shall be conducted within 60 days of firing on oil. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
18. When firing on fuel oil, weekly visible emissions inspection shall be performed using EPA Method 9. If visible emissions are observed, corrective action shall be taken to eliminate excessive visible emissions. [District rule 2520, 9.4.2], [Federally Enforceable Through Title V]
19. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081], [Federally Enforceable Through Title V]
20. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081], [Federally Enforceable Through Title V]
21. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081], [Federally Enforceable Through Title V]
22. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
23. When the unit is fired on fuel oil (including crude and topped crude) and compliance with NOx emission limits is achieved through fuel nitrogen content testing, then the nitrogen content of the fuel being fired in the unit shall be determined using ASTM D3431. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
24. If fuel analysis is used to determine NOx emissions, the fuel higher heating value for each fuel shall be certified by a third party fuel supplier or determined by: ASTM D 240 or D 2382 for liquid hydrocarbon fuels; ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rules 2520, 9.4.2 and 4305, 6.2.1;], [Federally Enforceable Through Title V]
25. Record of inspections shall be kept and made available to the District upon request. The record shall at least include date and time of inspection, equipment description, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
26. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVAPCD Rule 4201 (Amended December 17, 1992), Rule 4801 (Amended December 17, 1992), and Rule 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
27. Compliance with permit conditions in the Title V permit shall be deemed compliance with the out dated Kern County Rules: 108.1, 404, and 407.2. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
28. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c through 60.48c do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-2-9

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

25.2 MMBTU/HR OIL-FIRED NATIONAL REPLACEMENT STANDBY STEAM GENERATOR (DIS #13192-66, BB & O LEASE)

**PERMIT UNIT REQUIREMENTS**

1. Particulate matter emissions shall not exceed 0.1 grain/dscf, nor 0.1 grain/dscf as calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
2. Sulfur compound emissions shall not exceed 2000 ppmv (or 0.2% by volume) calculated as sulfur dioxide (SO<sub>2</sub>), on a dry basis average over 15 consecutive minutes. [District Rule 4801, Kern County Rule 407, and District Rule 4301, 5.2.1], [Federally Enforceable Through Title V]
3. If continuous operation oxygen analyzer/controller is utilized, excess O<sub>2</sub> shall be maintained between 0.5 and 3.0%. If not utilized, excess air shall be maintained at no less than 15%. [District Rule 4405 and District NSR Rule], [Federally Enforceable Through Title V]
4. Fuel oil preheat and atomization equipment shall be operated and maintained as intended by manufacturer. [District NSR Rule], [Federally Enforceable Through Title V]
5. Fuel oil sulfur content shall not exceed 1.27% by weight. [District NSR Rule], [Federally Enforceable Through Title V]
6. Excess combustion air level must be checked daily and adjusted if needed. [District NSR Rule], [Federally Enforceable Through Title V]
7. Fuel usage shall be less than 90 billion BTU per calendar year. [District Rule 4305]
8. This permit unit shall only operate during breakdown or maintenance of at least one of the following primary permit units S-2265-1, S-1246-19, -204, and -250 through -254. [District Rule 4305]
9. This permit unit shall not operate when all primary permit units, S-2265-1, S-1246-19, -204, and -250 through -254, are operating except during start-up or shutdown of a primary unit. [District Rule 4305]
10. Permittee shall either tune the unit at least once each calendar year in which it operates by a technician that is qualified in accordance with the procedure described in District Rule 4304, or operate the unit in a manner that maintains exhaust O<sub>2</sub> at less than or equal to 3.00% by volume on a dry basis. [District Rule 4305]
11. Permittee shall maintain accurate records of annual fuel usage, fuel heat content, and name and company of technician (if any) tuning the unit and make such records readily available for District inspection upon request. [District Rule 2520, 9.4.2 and District Rule 4305], [Federally Enforceable Through Title V]
12. The operator shall do one of the following: fire the unit only on PUC-regulated natural gas; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 1.27% by weight for fuel oil and 3.3% for natural gas. [Kern County Rule 407, District Rule 4801, District Rule 4301, 5.2.1 and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. Sulfur emissions shall not exceed 0.11 lb of sulfur per million BTU of heat input, averaged over 3 - one hour periods. Compliance with this requirement may be demonstrated by firing the unit only on PUC-regulated natural gas; multiplying the reported sulfur content of each fuel in lb/MMBtu by the maximum heat input rating of the unit; or by a combination of source testing for sulfur compounds and fuel analysis. Compliance may be demonstrated for this unit individually, or by showing that the total emissions of sulfur compounds from all steam generators located at the stationary source with ATC or PTO issued prior to September 12, 1979 does not exceed the emissions that would result if each unit was operating in compliance with the specified limit. [Kern County Rule 424 and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
14. NO<sub>x</sub> emissions shall not exceed 0.40 lb/MMBtu of heat input when firing on fuel oil. Compliance may be demonstrated through supplier certification of nitrogen content and heating value or by weekly fuel testing for nitrogen content and heating value. NO<sub>x</sub> emissions shall be calculated using the heating value and the following formula:  $\text{lb NO}_2/1000 \text{ gal} = 20.54 + 104.39(N)$ , where N is the weight % nitrogen in the fuel. If compliance with NO<sub>x</sub> emission limit is demonstrated for eight consecutive weeks for a fuel source, then the fuel testing frequency shall be bi-annually. If bi-annual fuel content source test fails to show compliance, weekly testing shall resume. [Kern County Rule 425, District Rules 4301 and 2520, 9.4.2], [Federally Enforceable Through Title V]
15. When complying with sulfur emission limits by fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

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16. Sulfur content of the fuel firing on this unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory for gaseous fuel and ASTM D 2880 for liquid fuel. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. If the unit is fired on fuel oil for more than 168,000 gallons (operated 1,000 hours on fuel oil) in any one calendar year, source testing shall be performed using EPA Method 5 while firing on fuel oil to demonstrate compliance with PM emission limits. If source testing is required, it shall be conducted within 60 days of firing on oil. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
18. When firing on fuel oil, weekly visible emissions inspection shall be performed using EPA Method 9. If visible emissions are observed, corrective action shall be taken to eliminate excessive visible emissions. [District rule 2520, 9.4.2], [Federally Enforceable Through Title V]
19. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081], [Federally Enforceable Through Title V]
20. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081], [Federally Enforceable Through Title V]
21. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081], [Federally Enforceable Through Title V]
22. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
23. When the unit is fired on fuel oil (including crude and topped crude) and compliance with NOx emission limits is achieved through fuel nitrogen content testing, then the nitrogen content of the fuel being fired in the unit shall be determined using ASTM D3431. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
24. If fuel analysis is used to determine NOx emissions, the fuel higher heating value for each fuel shall be certified by a third party fuel supplier or determined by: ASTM D 240 or D 2382 for liquid hydrocarbon fuels; ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rule 2520, 9.4.2; 4305, 6.2.1; and 4351, 6.2.1], [Federally Enforceable Through Title V]
25. Record of inspections shall be kept and made available to the District upon request. The record shall at least include date and time of inspection, equipment description, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
26. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVAPCD Rule 4201 (Amended December 17, 1992), Rule 4801 (Amended December 17, 1992), and Rule 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
27. Compliance with permit conditions in the Title V permit shall be deemed compliance with the out dated Kern County Rules: 108.1, 404, and 407.2. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
28. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c through 60.48c do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]



**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-3-15

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

25.2 MMBTU/HR GAS-FIRED STEAM GENERATOR (DIS # 2283-65) WITH NORTH AMERICAN BURNER, FGR, AND O2 CONTROLLER. APPROVED AT SEC 28 & 34, T12N, R24W; SEC 31, T32S, R24E; SEC 36, T32S, R23E; & NE SEC 11, T31S, R22E

## **PERMIT UNIT REQUIREMENTS**

1. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Last Amended December 16, 1993). [District Rule 1081 and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
2. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. Particulate matter emissions shall not exceed 0.1 grain/dscf, calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
4. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072-80, D 3031-81, D 4084-82, D 3246-81 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. If fuel analysis is used to demonstrate compliance with conditions of this permit, the fuel higher heating value for each fuel shall be certified by a third party fuel supplier or determined by ASTM D 1826-88 or D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels. [District Rule 2520, 9.4.2; 4305, 6.2.1; and 4351, 6.2.1], [Federally Enforceable Through Title V]
8. Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. [District Rules 4301, 5.2.2, 5.3, and 5.5 and 2520, 9.4.2], [Federally Enforceable Through Title V]
9. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
10. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
11. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
12. The requirements of SJVUAPCD Rule 4351 (Amended October 19, 1995) do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
13. Only natural gas consisting primarily of methane with no greater than 5% by weight hydrocarbons heavier than butane (as determined by ASTM method E-260) shall be used as fuel. [District NSR Rule], [Federally Enforceable Through Title V]

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14. Emission rates shall not exceed any of the following: PM10: 0.005 lb/MMBtu, SOx (as SO2): 0.0006 lb/MMBtu, NOx (as NO2): 0.036 lb/MMBtu, VOC: 0.003 lb/MMBtu or CO: 46.6 ppmv @ 3% O2. [District NSR Rule, Kern County Rule 407, Kern County Rule 424, District Rule 4301, District Rule 4801, and District Rule 4305], [Federally Enforceable Through Title V]
15. Operation shall be equipped with flue gas recirculation valve setting indicator. [District NSR Rules and 4305], [Federally Enforceable Through Title V]
16. The acceptable FGR valve settings shall be established by testing emissions from this unit or other representative units as approved by the District. The acceptable settings shall be the minimum FGR recirculation rate setting with which compliance with applicable NOx and CO emissions limits have been demonstrated through source testing at a similar firing rate. [District Rule 4305 and 2520, 9.4.2], [Federally Enforceable Through Title V]
17. The flue gas recirculation valve shall be inspected at least on a weekly basis. [District Rule 4305 and 2520, 9.4.2], [Federally Enforceable Through Title V]
18. If the FGR valve setting is not within the acceptable setting, the permittee shall notify the District and return the valve setting to within the acceptable range within one (1) hour after detection. If the FGR valve setting is not corrected within (1) hour, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emissions limits at the observed FGR valve settings. [District Rule 4305 and 2520, 9.4.2], [Federally Enforceable Through Title V]
19. The permittee shall maintain records of the date and time of FGR valve setting observations and the observed setting. The records shall also include a description of any corrective action taken to maintain FGR valve setting at or above the minimum acceptable setting. These records shall be retained at the facility and shall be made available for District inspection upon request. [District Rule 4305 and 2520, 9.4.2], [Federally Enforceable Through Title V]
20. Compliance source testing shall be conducted under conditions representative of normal operation. [District Rule 1081], [Federally Enforceable Through Title V]
21. Steam generator exhaust stack shall be equipped with adequate provisions facilitating the collection of gas samples consistent with EPA Test Methods. [District Rule 1081], [Federally Enforceable Through Title V]
22. Source testing for NOx and CO emissions limit shall be conducted within 60 days of startup and not less than once every 12 months, except as provided below. [District Rules 4305, 4351, and 2520, 9.4.2], [Federally Enforceable Through Title V]
23. Source testing for NOx and CO emissions limit shall be conducted not less than once every 36 months if compliance is demonstrated on two consecutive annual tests. [District Rules 4305, 4351, and 2520, 9.4.2], [Federally Enforceable Through Title V]
24. If permittee fails any compliance demonstration for NOx and/or CO emission limits when testing not less than once every 36 months, compliance with NOx and CO emission limits shall be demonstrated not less than once every 12 months. [District Rules 4305, 4351, and 2520, 9.4.2], [Federally Enforceable Through Title V]
25. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081], [Federally Enforceable Through Title V]
26. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081], [Federally Enforceable Through Title V]
27. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081], [Federally Enforceable Through Title V]
28. The following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, NOx (lb/MMBtu) - EPA Method 19, CO (ppmv) - EPA Method 10 or ARB Method 100, and stack gas oxygen - EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4351, and 2520, 9.4.2], [Federally Enforceable Through Title V]
29. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 forty-minute test runs for NOx and CO. This mean shall be multiplied by the appropriate factor. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-4-13

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

25.2 MMBTU/HR GAS-FIRED REPLACEMENT STANDBY STEAM GENERATOR WITH NORTH AMERICAN 4131-E BURNER ASSEMBLY (DIS# 9303-676). ALSO APPROVED AT SEC 28, 34, AND 36, T12N, R24W, AND SEC 36, T32S, R23E

## **PERMIT UNIT REQUIREMENTS**

1. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Last Amended December 16, 1993). [District Rule 1081 and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
2. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. Particulate matter emissions shall not exceed 0.1 grain/dscf, calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
4. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072-80, D 3031-81, D 4084-82, D 3246-81 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. If fuel analysis is used to demonstrate compliance with conditions of this permit, the fuel higher heating value for each fuel shall be certified by a third party fuel supplier or determined by ASTM D 1826-88 or D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels. [District Rule 2520, 9.4.2; 4305, 6.2.1; and 4351, 6.2.1], [Federally Enforceable Through Title V]
8. Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. [District Rules 4301, 5.2.2, 5.3, and 5.5 and 2520, 9.4.2], [Federally Enforceable Through Title V]
9. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
10. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
11. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
12. The requirements of SJVUAPCD Rule 4351 (Amended October 19, 1995) do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
13. Unit shall be equipped with a non-resettable fuel flow meter. Volumetric flow measurements shall be periodically compensated for temperature and pressure. A master meter, which measures fuel to all units in a group of similar units, may satisfy this requirement if approved by the APCO in writing. [District Rule 4305]

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14. District shall be notified in writing at least 7 days prior to each transfer between District approved location, giving the exact location of the move. [District NSR Rule], [Federally Enforceable Through Title V]
15. Unit shall operate only on natural gas with hydrogen sulfide content not exceeding 0.01% by volume. [District NSR Rule], [Federally Enforceable Through Title V]
16. Natural gas fired emission rate shall not exceed any of the following: PM10 - 0.005 lb/MMBtu, SOx (as SO2) - 0.0006 lb/MMBtu, NOx (as NO2) - 0.14 lb/MMBtu, VOC - 0.003 lb/MMBtu, or CO - 46.6 ppmv @ 3% O2. [District NSR Rule, Kern County Rule 407, Kern County Rule 424, District Rule 4301, District Rule 4801, and District Rule 4305], [Federally Enforceable Through Title V]
17. Fuel usage shall be less than 90 billion BTU per calendar year. [District Rule 4305]
18. This permit unit shall only operate during breakdown or maintenance of the primary permit unit S-2265-1. [District Rule 4305]
19. This permit unit shall not operate simultaneously with the primary permit unit S-2265-1 except during start-up or shutdown of the primary unit. [District Rule 4305]
20. This permit unit shall not change locations from B and E (Central) Lease (SW/4 SEC 31, T32S, R24E) until all requirements in Rule 4305 have been satisfied. [District Rule 4305]
21. Permittee shall either tune the unit at least once each calendar year in which it operates by a technician that is qualified in accordance with the procedure described in District Rule 4304, or operate the unit in a manner that maintains exhaust O2 at less than or equal to 3.00% by volume on a dry basis. [District Rule 4305]
22. Permittee shall maintain accurate records of annual fuel usage, fuel heat content, and name and company of technician (if any) tuning the unit and make such records readily available for District inspection upon request. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
23. Fuel gas hydrogen sulfide content shall be determined using method Double GC at least once every 12 months period. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-5-13

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

31.5 MMBTU/HR GAS-FIRED REPLACEMENT STANDBY STEAM GENERATOR WITH NORTH AMERICAN 4131-E BURNER ASSEMBLY (DIS# 14689-66). ALSO APPROVED AT SEC 28, 34, AND 36, T12N, R24W, AND SEC 36, T32S, R23E

## **PERMIT UNIT REQUIREMENTS**

1. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Last Amended December 16, 1993). [District Rule 1081 and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
2. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. Particulate matter emissions shall not exceed 0.1 grain/dscf, calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
4. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072-80, D 3031-81, D 4084-82, D 3246-81 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. If fuel analysis is used to demonstrate compliance with conditions of this permit, the fuel higher heating value for each fuel shall be certified by a third party fuel supplier or determined by ASTM D 1826-88 or D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels. [District Rule 2520, 9.4.2; 4305, 6.2.1; and 4351, 6.2.1], [Federally Enforceable Through Title V]
8. Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. [District Rules 4301, 5.2.2, 5.3, and 5.5 and 2520, 9.4.2], [Federally Enforceable Through Title V]
9. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
10. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
11. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
12. The requirements of SJVUAPCD Rule 4351 (Amended October 19, 1995) do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
13. Unit shall be equipped with a non-resettable fuel flow meter. Volumetric flow measurements shall be periodically compensated for temperature and pressure. A master meter, which measures fuel to all units in a group of similar units, may satisfy this requirement if approved by the APCO in writing. [District Rule 4305 and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

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14. District shall be notified in writing at least 7 days prior to each transfer between District approved location, giving the exact location of the move. [District NSR Rule], [Federally Enforceable Through Title V]
15. Unit shall operate only on natural gas with hydrogen sulfide content not exceeding 0.01% by volume. [District NSR Rule], [Federally Enforceable Through Title V]
16. Natural gas fired emission rate shall not exceed any of the following: PM10 - 0.005 lb/MMBtu, SOx (as SO2) - 0.0006 lb/MMBtu, NOx (as NO2) - 0.14 lb/MMBtu, VOC - 0.003 lb/MMBtu, or CO - 46.6 ppmv @ 3% O2. [District NSR Rule, Kern County Rule 407, Kern County Rule 424, District Rule 4301, District Rule 4801, and District Rule 4305], [Federally Enforceable Through Title V]
17. Fuel usage shall be less than 90 billion BTU per calendar year. [District Rule 4305]
18. This permit unit shall only operate during breakdown or maintenance of the primary permit unit S-2265-1. [District Rule 4305]
19. This permit unit shall not operate simultaneously with the primary permit unit S-2265-1 except during start-up or shutdown of the primary unit. [District Rule 4305]
20. This permit unit shall not change locations from B and E (Central) Lease (SW/4 SEC 31, T32S, R24E) until all requirements in Rule 4305 have been satisfied. [District Rule 4305]
21. Permittee shall either tune the unit at least once each calendar year in which it operates by a technician that is qualified in accordance with the procedure described in District Rule 4304, or operate the unit in a manner that maintains exhaust O2 at less than or equal to 3.00% by volume on a dry basis. [District Rule 4305]
22. Permittee shall maintain accurate records of annual fuel usage, fuel heat content, and name and company of technician (if any) tuning the unit and make such records readily available for District inspection upon request. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
23. Fuel gas hydrogen sulfide content shall be determined using method Double GC at least once every 12 months period. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-9-10

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

25.2 MMBTU/HR NATURAL GAS-FIRED SUPERIOR HEATER TREATER (CFJ302).

## **PERMIT UNIT REQUIREMENTS**

1. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
2. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. Particulate matter emissions shall not exceed 0.1 grain/dscf, calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
4. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by: ASTM D 240-87 or D 2382-88 for liquid hydrocarbon fuels; ASTM D 1826-88 or D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels. [District Rule 2520, 9.4.2; 4305, 6.2.1; and 4351, 6.2.1], [Federally Enforceable Through Title V]
7. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072-80, D 3031-81, D 4084-82, D 3246-81 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
8. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume as measured on a dry basis over a 15 minute period. To demonstrate compliance with this requirement the operator shall do one of the following: fire the unit only on PUC or FERC regulated natural gas; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels; or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [Kern County Rule 407, District Rule 4301, District Rule 4801, and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. [District Rules 4301, 5.2.2, 5.3, and 5.5], [Federally Enforceable Through Title V]
10. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements of SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
11. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
12. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
13. Only PUC-quality natural gas shall be used as fuel. [District NSR Rule], [Federally Enforceable Through Title V]

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14. Natural gas fired emission rate for this unit shall not exceed any of the following: PM10 - 0.005 lb/MMBtu, SOx (as SO2) - 0.0006 lb/MMBtu, NOx (as NO2) - 0.14 lb/MMBtu, VOC - 0.003 lb/MMBtu, or CO - 46.6 ppmv @ 3% O2. [District NSR Rule], [Federally Enforceable Through Title V]
15. Total heat input to this unit shall be less than 30 billion Btu per calendar year. [District Rule 4305]
16. Unit shall be either: (1) tuned at least once each calendar year in which it operates by a qualified technician in accordance with Rule 4304, or (2) operated with exhaust oxygen concentration no greater than 3.00% by volume on a dry basis. [District Rule 4305]
17. Unit shall be operated in accordance with the manufacturer's recommendations. [District Rule 4305]
18. Permittee shall maintain records of monthly and annual fuel consumption and shall make such records readily available for District inspection upon request. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]



**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-10-5

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

12.6 MMBTU/HR SUPERIOR HEATER TREATER

## **PERMIT UNIT REQUIREMENTS**

1. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
2. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. Particulate matter emissions shall not exceed 0.1 grain/dscf, calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
4. Source testing shall be performed using EPA Method 5 while firing on residual oil (including crude or topped crude) to demonstrate compliance with PM emission limits. Source testing shall be performed within 60 days of firing on residual oil unless such testing has been performed within the 12 month period prior to firing on said oil and the test results showed compliance with PM emission limits of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072-80, D 3031-81, D 4084-82, D 3246-81 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
8. If the unit is fired on noncertified liquid fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the liquid fuel being fired in the unit shall be determined using ASTM D 2880-71. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by: ASTM D 240-87 or D 2382-88 for liquid hydrocarbon fuels; ASTM D 1826-88 or D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels. [District Rule 2520, 9.4.2; 4305, 6.2.1; and 4351, 6.2.1], [Federally Enforceable Through Title V]
10. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume as measured on a dry basis over a 15 minute period. To demonstrate compliance with this requirement the operator shall do one of the following: fire the unit only on PUC or FERC regulated natural gas or diesel fuel not exceeding 0.5% sulfur by weight; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or 1.27% by weight for residual oil (including crude or topped crude); or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [Kern County Rule 407, District Rule 4301, 5.2.1, District Rule 4801, and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
11. Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. For residual and crude oil fired units, compliance may be demonstrated through supplier certification of nitrogen content and heating value or by weekly fuel testing for nitrogen content and heating value. Hourly emissions shall be calculated using the heating value, maximum rated unit capacity, and the following formula:  $\text{lb NO}_2/1000 \text{ gal} = 20.54 + 104.39 (N)$ , where N is the weight % nitrogen in the fuel. If compliance with the NO<sub>x</sub> emission limit is demonstrated through the fuel nitrogen content testing and compliance has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be bi-annually. If a bi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rules 4301, 5.2.2, 5.3, and 5.5 and 2520, 9.4.2], [Federally Enforceable Through Title V]

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12. If the unit is fired on noncertified residual or crude oil and compliance with NOx emission limits is achieved through fuel nitrogen content testing, then the nitrogen content of the fuel being fired in the unit shall be determined using ASTM D3431-80. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements of SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
14. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
15. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
16. Additional approved location is SW 31, T32S, R24E Berry & Ewing lease. [District NSR Rule], [Federally Enforceable Through Title V]
17. Fuel oil preheat and atomization equipment shall be operated and maintained as intended by manufacturer. [District NSR Rule], [Federally Enforceable Through Title V]
18. Fuel oil sulfur content shall not exceed 1.27% by weight. [District NSR Rule], [Federally Enforceable Through Title V]
19. Fuel usage shall be less than 30 billion BTU per calendar year. [District Rule 4305]
20. Permittee shall either tune the unit at least once each calendar year in which it operates by a technician that is qualified in accordance with the procedure described in District Rule 4304, or operate the unit in a manner that maintains exhaust O2 at less than or equal to 3.00% by volume on a dry basis. [District Rule 4305]
21. Permittee shall maintain accurate records of annual fuel usage, fuel heat content, and name and company of technician (if any) tuning the unit and make such records readily available for District inspection upon request. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
22. When firing on fuel oil, weekly visible emissions inspection shall be performed using EPA Method 9. If visible emissions are observed, corrective action shall be taken to eliminate excessive visible emissions. [District rule 2520, 9.4.2], [Federally Enforceable Through Title V]
23. Records of inspections shall be kept and made available to the District upon request. The record shall at least include date and time of inspection, equipment description, corrective action taken, and identification of an individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

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**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-11-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

4.2 MMBTU/HR SUPERIOR HEATER TREATER (CFJ 435)

## **PERMIT UNIT REQUIREMENTS**

1. Particulate matter emissions shall not exceed 0.1 grain/dscf, calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
2. Sulfur compound emissions shall not exceed 2000 ppmv (or 0.2% by volume) calculated as sulfur dioxide (SO<sub>2</sub>), on a dry basis average over 15 consecutive minutes. [District Rule 4801, Kern County Rule 407, and District Rule 4301, 5.2.1], [Federally Enforceable Through Title V]
3. Fuel oil preheat and atomization equipment shall be operated and maintained as intended by manufacturer. [District NSR Rule], [Federally Enforceable Through Title V]
4. Fuel oil sulfur content shall not exceed 1.27% by weight. [District NSR Rule], [Federally Enforceable Through Title V]
5. Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. [District Rules 4301, 5.2.2], [Federally Enforceable Through Title V]
6. The operator shall do one of the following: fire the unit only on PUC-regulated natural gas; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 1.27% by weight for fuel oil and 3.3% for natural gas. [District Rule 2520, 9.4.2, District Rule 4801, and District Rule 4301, 5.2.1], [Federally Enforceable Through Title V]
7. When complying with sulfur emission limits by fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
8. Sulfur content of the fuel firing on this unit shall be determined using ASTM D 1072-80, D 3031-81, D 4084-82, D 3246-81 or grab sample analysis by GC-FPD/TCD performed in the laboratory for gaseous fuel and ASTM D 2880-71 for liquid fuel. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
10. If the unit is fired on fuel oil for more than 28,000 gallons (operated 1,000 hours on fuel oil) in any one calendar year, source testing shall be performed using EPA Method 5 while firing on fuel oil to demonstrate compliance with PM emission limits. If source testing is required, it shall be conducted within 60 days of firing on oil. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
11. When firing on fuel oil, weekly visible emissions inspection shall be performed using EPA Method 9. If visible emissions are observed, corrective action shall be taken to eliminate excessive visible emissions. [District rule 2520, 9.4.2], [Federally Enforceable Through Title V]
12. Record of inspections shall be kept and made available to the District upon request. The record shall at least include date and time of inspection, equipment description, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVAPCD Rule 4201 (Amended December 17, 1992), Rule 4801 (Amended December 17, 1992), and Rule 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
14. Compliance with permit conditions in the Title V permit shall be deemed compliance with the out dated Kern County Rules: 108.1, 404, and 407.2. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
15. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c through 60.48c do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-12-0

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

250 HP G-D AIR INJECTION COMPRESSOR (CANCELLED BY PERMITTEE AT RENEWAL BILLING - TEG 2/24/98)

## **PERMIT UNIT REQUIREMENTS**

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1. Particulate matter emissions from any combustion source shall not exceed 0.1 grains/dscf (calculated to 12% carbon dioxide). [District Rule 4301]
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
3. Sulfur compound emissions shall not exceed 2000 ppmv as SO<sub>2</sub>. [District Rule 4801]

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**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-14-9

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

31.5 MMBTU/HR GPI REPLACEMENT STANDBY STEAM GENERATOR (BB & O LEASE)

## **PERMIT UNIT REQUIREMENTS**

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1. Unit shall be equipped with a non-resettable fuel flow meter. Volumetric flow measurements shall be periodically compensated for temperature and pressure. A master meter, which measures fuel to all units in a group of similar units, may satisfy this requirement if approved by the APCO in writing. [District Rule 4305]
2. Unit shall operate only on natural gas with hydrogen sulfide content not exceeding 0.01% by volume. [District NSR Rule], [Federally Enforceable Through Title V]
3. Natural gas fired emission rate shall not exceed any of the following: PM10 - 0.005 lb/MMBtu, SOx (as SO2) - 0.0006 lb/MMBtu, NOx (as NO2) - 0.14 lb/MMBtu, VOC - 0.003 lb/MMBtu, or CO - 46.6 ppmv @ 3% O2. [District NSR Rule, Kern County Rule 407, Kern County Rule 424, District Rule 4301, District Rule 4801, and District Rule 4305], [Federally Enforceable Through Title V]
4. Fuel usage shall be less than 90 billion BTU per calendar year. [District Rule 4305]
5. This permit unit shall only operate during breakdown or maintenance of at least one of the following primary permit units S-2265-1, S-1246-19, -204, and -250 through -254. [District Rule 4305]
6. This permit unit shall not operate when all primary permit units, S-2265-1, S-1246-19, -204, and -250 through -254, are operating except during start-up or shutdown of a primary unit. [District Rule 4305]
7. Permittee shall either tune the unit at least once each calendar year in which it operates by a technician that is qualified in accordance with the procedure described in District Rule 4304, or operate the unit in a manner that maintains exhaust O2 at less than or equal to 3.00% by volume on a dry basis. [District Rule 4305]
8. Permittee shall maintain accurate records of annual fuel usage, fuel heat content, and name and company of technician (if any) tuning the unit and make such records readily available for District inspection upon request. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. Particulate matter emissions shall not exceed 0.1 grain/dscf, nor 0.1 grain/dscf as calculated to 12% CO2, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
10. Nitrogen oxide (NOx) emissions shall not exceed 140 lb/hr, calculated as NO2. [District Rules 4301, 5.2.2], [Federally Enforceable Through Title V]
11. If the unit is fired on PUC or FERC regulated natural gas, then copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
12. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. Sulfur content of the fuel firing on this unit shall be determined using ASTM D 1072-80, D 3031-81, D 4084-82, D 3246-81 or grab sample analysis by GC-FPD/TCD performed in the laboratory for gaseous fuel. Method double GC shall be used when determining fuel gas hydrogen sulfide content. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
14. When complying with SOx emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
15. If fuel analysis is used to demonstrate compliance with conditions of this permit, the fuel higher heating value for each fuel shall be certified by a third party fuel supplier or determined by ASTM D 1826-88 or D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels. [District Rule 2520, 9.4.2; 4305, 6.2.1; and 4351, 6.2.1], [Federally Enforceable Through Title V]

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16. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVAPCD Rule 4201 (Amended December 17, 1992), Rule 4801 (amended December 17, 1992), and Rule 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
17. Compliance with permit conditions in the Title V permit shall be deemed compliance with the out dated Kern County Rules: 108.1, 404, and 407.2. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
18. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c through 60.48c do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-15-13

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

31.5 MMBTU/HR REPLACEMENT/STANDBY GAS-FIRED STEAM GENERATOR W/ NORTH AMERICAN 4131-E BURNER ASSEMBLY (DIS#14689-66). ALSO APPROVED AT SEC 28, 34 & 36, T12N, R24W & SEC 36, T32S, R23E.

## **PERMIT UNIT REQUIREMENTS**

1. Unit shall be equipped with a non-resettable fuel flow meter. Volumetric flow measurements shall be periodically compensated for temperature and pressure. A master meter, which measures fuel to all units in a group of similar units, may satisfy this requirement if approved by the APCO in writing. [District NSR Rule and District Rule 4305], [Federally Enforceable Through Title V]
2. Unit shall operate only on natural gas with hydrogen sulfide content not exceeding 0.01% by volume. [District NSR Rule], [Federally Enforceable Through Title V]
3. Natural gas fired emission rate shall not exceed any of the following: PM10 - 0.005 lb/MMBtu, SOx (as SO2) - 0.0006 lb/MMBtu, NOx (as NO2) - 0.14 lb/MMBtu, VOC - 0.003 lb/MMBtu, or CO - 46.6 ppmv @ 3% O2. [District NSR Rule, Kern County Rule 407, Kern County Rule 424, District Rule 4301, 5.2.1, and District Rule 4801], [Federally Enforceable Through Title V]
4. Fuel usage shall be less than 680,000 scf per day. [District NSR Rule], [Federally Enforceable Through Title V]
5. Fuel usage shall be less than 90 billion BTU per calendar year. [District NSR Rule and District Rule 4305], [Federally Enforceable Through Title V]
6. This permit unit shall only operate during breakdown or maintenance of at least one of the following primary permit units S-2265-1, S-1246-250, and -251. [District Rule 4305]
7. This permit unit shall not operate when all primary permit units, S-2265-1, S-1246-250, and -251, are operating except during start-up or shutdown of a primary unit. [District Rule 4305]
8. Permittee shall either tune the unit at least once each calendar year in which it operates by a technician that is qualified in accordance with the procedure described in District Rule 4304, or operate the unit in a manner that maintains exhaust O2 at less than or equal to 3.00% by volume on a dry basis. [District Rule 4305]
9. Permittee shall maintain accurate daily records of fuel usage. [District NSR Rule], [Federally Enforceable Through Title V]
10. Permittee shall maintain accurate records of annual fuel usage, fuel heat content, and name and company of technician (if any) tuning the unit. [District NSR Rule and District Rule 4305], [Federally Enforceable Through Title V]
11. Particulate matter emissions shall not exceed 0.1 grain/dscf, nor 0.1 grain/dscf as calculated to 12% CO2, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
12. Nitrogen oxide (NOx) emissions shall not exceed 140 lb/hr, calculated as NO2. [District Rules 4301, 5.2.2], [Federally Enforceable Through Title V]
13. If the unit is fired on PUC or FERC regulated natural gas, then copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
14. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
15. Sulfur content of the fuel firing on this unit shall be determined using ASTM D 1072-80, D 3031-81, D 4084-82, D 3246-81 or grab sample analysis by GC-FPD/TCD performed in the laboratory for gaseous fuel. Method double GC shall be used to measure fuel gas hydrogen sulfide content. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

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16. When complying with SOx emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. If fuel analysis is used to demonstrate compliance with conditions of this permit, the fuel higher heating value for each fuel shall be certified by a third party fuel supplier or determined by ASTM D 1826-88 or D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels. [District Rule 2520, 9.4.2; 4305, 6.2.1; and 4351, 6.2.1], [Federally Enforceable Through Title V]
18. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVAPCD Rule 4201 (Amended December 17, 1992), Rule 4801 (amended December 17, 1992), and Rule 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
19. Compliance with permit conditions in the Title V permit shall be deemed compliance with the out dated Kern County Rules: 108.1, 404, and 407.2. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
20. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c through 60.48c do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]



**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-19-15

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

62.5 MMBTU/HR C.E. NATCO NATURAL GAS-FIRED STEAM GENERATOR WITH FLUE GAS RECIRCULATION, NORTH AMERICAN LO-NOX BURNER, AND O2 CONTROLLER.

**PERMIT UNIT REQUIREMENTS**

1. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
2. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. Particulate matter emissions shall not exceed 0.1 grain/dscf, calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
4. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072-80, D 3031-81, D 4084-82, D 3246-81 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by ASTM D 1826-88 or D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels. [District Rule 2520, 9.4.2; 4305, 6.2.1; and 4351, 6.2.1], [Federally Enforceable Through Title V]
8. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume as measured on a dry basis over a 15 minute period. To demonstrate compliance with this requirement the operator shall do one of the following: fire the unit only on PUC or FERC regulated natural gas; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels; or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [Kern County Rule 407, District Rule 4301, District Rule 4801, and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. [District Rules 4301, 5.2.2, 5.3, and 5.5 and 2520, 9.4.2], [Federally Enforceable Through Title V]
10. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements of SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
11. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
12. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

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13. Natural gas fired emission rate shall not exceed any of the following: PM10 - 0.005 lb/MMBtu, SOx (as SO2) - 0.0006 lb/MMBtu, NOx (as NO2) - 0.036 lb/MMBtu, VOC - 0.003 lb/MMBtu, or CO - 46.6 ppmv @ 3% O2. [District NSR Rule and District Rules 4305 and 2520, 9.4.2], [Federally Enforceable Through Title V]
14. Source testing for NOx and CO emissions shall be conducted within 60 days of startup, and not less than once every 12 months, except as provided below. [District Rules 4305 and 2520, 9.4.2], [Federally Enforceable Through Title V]
15. Source testing for NOx and CO emissions shall be conducted not less than once every 36 months if compliance is demonstrated on two consecutive annual tests. [District Rules 4305 and 2520, 9.4.2], [Federally Enforceable Through Title V]
16. If permittee fails any compliance demonstration for NOx and CO emission limits when testing not less than once every 36 months, compliance with NOx and CO emission limits shall be demonstrated not less than once every 12 months. [District Rules 4305 and 2520, 9.4.2], [Federally Enforceable Through Title V]
17. Source test results from an individual unit that is identical to this unit, in terms of rated capacity, operational conditions, fuel used, and control method, as approved by the APCO, will satisfy the NOx and CO source testing requirement. [District Rules 4305 and 2520, 9.4.2], [Federally Enforceable Through Title V]
18. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081], [Federally Enforceable Through Title V]
19. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081], [Federally Enforceable Through Title V]
20. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081], [Federally Enforceable Through Title V]
21. The following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, NOx (lb/MMBtu) - EPA Method 19, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and fuel gas sulfur content - ASTM D3246 or double GC for H2S and mercaptans. [District Rules 1081 and 4305], [Federally Enforceable Through Title V]
22. Operation shall be equipped with flue gas recirculation valve setting indicator. [District NSR Rule and District Rule 4305], [Federally Enforceable Through Title V]
23. The acceptable FGR valve settings shall be established by testing emissions from this unit or other representative units as approved by the District. The acceptable settings shall be the minimum FGR recirculation rate setting with which compliance with applicable NOx and CO emissions limits have been demonstrated through source testing at a similar firing rate. [District Rules 4305 and 2520, 9.4.2], [Federally Enforceable Through Title V]
24. The flue gas recirculation valve shall be inspected at least on a weekly basis. [District Rules 4305 and 2520, 9.4.2], [Federally Enforceable Through Title V]
25. If the FGR valve setting is less than the acceptable setting, the permittee shall notify the District and set to acceptable range within one (1) hour after detection. If the FGR valve setting is not corrected within one hour, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emissions limits at the observed FGR valve settings. [District Rules 4305 and 2520, 9.4.2], [Federally Enforceable Through Title V]
26. The permittee shall maintain records of the date and time of FGR valve setting observations and the observed setting. The records shall also include a description of any corrective action taken to maintain FGR valve setting at or above the minimum acceptable setting. These records shall be retained at the facility and shall be made available for District inspection upon request. [District Rules 4305 and 2520, 9.4.2], [Federally Enforceable Through Title V]
27. The operational conditions during compliance testing may be imposed as permit requirements. [District Rule 2080], [Federally Enforceable Through Title V]
28. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 forty-minute test runs for NOx and CO. This mean shall be multiplied by the appropriate factor. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-20-7

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

62.5 MMBTU/HR C. E. NATCO STEAM GENERATOR WITH SO<sub>2</sub> SCRUBBER, NORTH AMERICAN LONOX BURNER AND O<sub>2</sub> CONTROLLER - SHUT DOWN FOR ERC CREDIT

**PERMIT UNIT REQUIREMENTS**

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1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
  2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
  3. All wells producing from strata steamed by this unit shall be connected to a District-approved emissions control system, have District-approved closed casing vents or be District-approved uncontrolled cyclic wells. [District Rule 4401]
  4. Steam generator firebox convection section, scrubber bypass valve, and all flue gas ductwork shall be maintained with no detectable leaks. [District NSR Rule]
  5. Scrubber recirculation liquor pH shall be maintained between 6.2 and 7.5. [ ]
  6. Scrubber recirculation liquid pH shall be maintained only by the addition of caustic unless prior approval for an alternative pH maintenance method is received from the District. [District NSR Rule]
  7. Scrubber recirculation liquor liquid to gas ratio shall be maintained at no less than 85.8 gpm/1000 acfm. [ ]
  8. Scrubber shall not utilize untreated produced water as recirculation or makeup liquid. [ ]
  9. Scrubber recirculation liquor shall be conditioned with an adequate amount of scale and foam inhibitor. [ ]
  10. Burner shall be equipped with the following instrumentation: fuel oil preheat temperature indicator, fuel oil and steam injection pressure indicators and fuel volume flowrate indicator. [ ]
  11. Fuel oil preheat and atomization equipment shall be operated and maintained as intended by manufacturer. [ ]
  12. Fuel oil sulfur content shall not exceed 1.37% by weight. [ ]
  13. Scrubber particulate matter removal efficiency shall be maintained at no less than 40% by weight at 1.37% sulfur fuel. [ ]
  14. Scrubber SO<sub>2</sub> absorption efficiency shall be maintained at no less than 95% by weight at 1.37% sulfur fuel. [ ]
  15. Approximately 30% of total combustion air and 50% of fuel shall be mixed in primary combustion zone, 60% of combustion air and 50% of fuel shall be mixed in secondary combustion zone. [ ]
  16. 10% of combustion air shall be directed to overfire injection system and 15% of combustion products shall be recirculated. [ ]
  17. If continuous operation oxygen analyzer/controller is utilized, excess O<sub>2</sub> shall be maintained between 0.5 and 3.0%. If not utilized, excess air shall be maintained at no less than 15%. [District NSR Rule]
  18. Sufficient calibration gas for O<sub>2</sub> analyzer shall be available at all times. [ ]
  19. When fired on gas, sulfur content of fuel gas shall not exceed 0.1 gr 100 scf. [ ]
  20. When fired on gas, steam generator operate without scrubber. [ ]
  21. Permittee shall submit compliance testing plan to the District prior to annual permit expiration date. [ ]
  22. Compliance testing shall be conducted annually as required by the District-approved plan. [District Rule 1081]
  23. Compliance source testing shall be conducted under conditions representative of normal operation. [District Rule 1081]
  24. Should source testing indicate an emission factor higher than that approved, the operator shall comply with Rule 1100 and, if necessary, submit an application for Authority to Construct to incorporate the higher emission factor into the SLC. [District NSR Rule]
  25. The permittee shall maintain records of fuel type, quantity, permitted emission factors and emissions for each unit for each day of operation, in the format approved by the District. [District NSR Rule]

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26. Records required by this permit shall be retained on site for a period of at least five years and shall be made readily available for District inspection upon request. [District NSR Rule]
27. Total daily emissions of each air contaminant, and total daily fuel used, for each unit subject to the SLC and for each day of the month, shall be submitted to the District quarterly, if no SLC violations occurred in the previous six months. [District NSR Rule]
28. Total daily emissions of each air contaminant, and total daily fuel used, for each unit subject to the SLC and for each day of the month, shall be submitted to the District monthly, if SLC violations occurred in the previous six months. [District NSR Rule]
29. Reports of daily emissions and fuel usage, as required by this permit for units in the SLC, shall be submitted within 30 days after the end of the reporting period. [District NSR Rule]
30. For units equipped with continuous emissions monitors (CEMs), CEM records shall be used in place of calculated emissions. [District NSR Rule]
31. The operator shall apply to revise each Permit to Operate subject to the SLC when any unit subject to the SLC has a District-authorized change in daily emission rate, or Permit to Operate is surrendered or sold. [District NSR Rule]
32. If fuel use monitoring provisions fail, emissions shall be calculated based on operational data, or if not available, set equal to the average of four days prior to failure and permittee shall meet the requirements of Rule 1100 for CEM's. [ ]
33. Natural gas fired emission rate for this unit shall not exceed: PM10 - 5.0 lb/mmscf, SOx (as SO2) - 0.6 lb/mmscf, NOx (as NO2) - 140.0 lb/mmscf, VOC - 2.8 lb/mmscf, and CO - 35.0 lb/mmscf. [ ]
34. Oil fired emission rate for this unit when unscrubbed shall not exceed: PM10 - 0.7 lb/bbl, SOx (as SO2) - 9.22 lb/bbl, NOx (as NO2) - 2.5 lb/bbl, VOC - 0.012 lb/bbl, and CO - 0.21 lb/bbl. [ ]
35. Oil fired emission rate for this unit when scrubbed shall not exceed: PM10 - 0.41 lb/bbl, SOx (as SO2) - 0.57 lb/bbl, NOx (as NO2) - 1.23 lb/bbl, VOC - 0.04 lb/bbl, and CO - 0.21 lb/bbl. [ ]
36. Units S-1246-3, '4, and '5 are not included in SLC plan when unit S-1246-20 is scrubbed, but gas fired emissions are included in SLC plan when unit S-1246-20 is unscrubbed. [ ]
37. Emission rate for all units subject to SLC when unit S-1246-20 is scrubbed w/ low NOx burner shall not exceed: PM-10 - 326.5 lb/day, SOx (as SO2) - 1656.3 lb/day, NOx (as NO2) - 1264.9 lb/day, VOC - 29.0 lb/day, and CO - 255.3 lb/day. [ ]
38. Emission rate for all units subject to SLC when unit S-1246-20 is unscrubbed w/o low NOx burner shall not exceed: PM10 - 387.9 lb/day, SOx (as SO2) - 3181.3 lb/day, NOx (as NO2) - 1751.1 lb/day, VOC - 29.2 lb/day, and CO - 322.8 lb/day. [ ]
39. For this emission unit the overall throttle and use factor used in the SLC plan is 100% for gas-fired and 72% for oil-fired. [ ]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-24-14

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

23.0 MMBTU/HR GAS & OIL FIRED THERMOTICS STEAM GENERATOR WITH FLUE GAS RECIRCULATION AND O2 CONTROLLER; APPROVED FOR B&E AND ETHEL LEASES

## **PERMIT UNIT REQUIREMENTS**

1. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
2. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. Particulate matter emissions shall not exceed 0.1 grain/dscf, calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
4. Source testing shall be performed using EPA Method 5 while firing on residual oil (including crude or topped crude) to demonstrate compliance with PM emission limits. Source testing shall be performed within 60 days of firing on residual oil unless such testing has been performed within the 12 month period prior to firing on said oil and the test results showed compliance with PM emission limits of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072-80, D 3031-81, D 4084-82, D 3246-81 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
8. If the unit is fired on noncertified liquid fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the liquid fuel being fired in the unit shall be determined using ASTM D 2880-71. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by: ASTM D 240-87 or D 2382-88 for liquid hydrocarbon fuels; ASTM D 1826-88 or D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels. [District Rule 2520, 9.4.2; 4305, 6.2.1; and 4351, 6.2.1], [Federally Enforceable Through Title V]
10. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume as measured on a dry basis over a 15 minute period. To demonstrate compliance with this requirement the operator shall do one of the following: fire the unit only on PUC or FERC regulated natural gas or diesel fuel not exceeding 0.5% sulfur by weight; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or 1.3% by weight for residual oil (including crude or topped crude); or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [Kern County Rule 407, District Rule 4301, 5.2.1, District Rule 4801, and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

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11. Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. For residual and crude oil fired units, compliance may be demonstrated through supplier certification of nitrogen content and heating value or by weekly fuel testing for nitrogen content and heating value. Hourly emissions shall be calculated using the heating value, maximum rated unit capacity, and the following formula:  $\text{lb NO}_2/1000 \text{ gal} = 20.54 + 104.39 (N)$ , where N is the weight % nitrogen in the fuel. If compliance with the NO<sub>x</sub> emission limit is demonstrated through the fuel nitrogen content testing and compliance has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be bi-annually. If a bi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rules 4301, 5.2.2 and 2520, 9.4.2], [Federally Enforceable Through Title V]
12. If the unit is fired on noncertified residual or crude oil and compliance with NO<sub>x</sub> emission limits is achieved through fuel nitrogen content testing, then the nitrogen content of the fuel being fired in the unit shall be determined using ASTM D3431-80. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements of SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
14. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
15. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
16. Unit also authorized to operate at SW 31, T32S, R24E. [District NSR Rule], [Federally Enforceable Through Title V]
17. All wells producing from strata steamed by this unit shall be connected to a District-approved emissions control system, have District-approved closed casing vents or be District-approved uncontrolled cyclic wells. [District Rule 4401], [Federally Enforceable Through Title V]
18. Wells B & E 98 and Ethel D-376 shall have casing vents closed at all times. [District NSR Rule], [Federally Enforceable Through Title V]
19. Fuel oil preheat and atomization equipment shall be operated and maintained as intended by manufacturer. [District NSR Rule], [Federally Enforceable Through Title V]
20. Burner shall be equipped with the following instrumentation: fuel oil preheat temperature indicator, fuel oil and steam injection pressure indicators and fuel volume flowrate indicator. [District NSR Rule], [Federally Enforceable Through Title V]
21. Only natural gas consisting primarily of methane with no more than 5% hydrocarbons heavier than butane as determined by ASTM Method E-260-73 shall be used as gaseous fuel. [District NSR Rule], [Federally Enforceable Through Title V]
22. Natural gas burned in unit shall have a hydrogen sulfide content not exceeding 0.01% by volume. [District NSR Rule and 4102], [Federally Enforceable Through Title V]
23. Fuel oil sulfur content shall not exceed 1.3% by weight. [District NSR Rule], [Federally Enforceable Through Title V]
24. Oil fuel shall be burned only during periods of non-voluntary natural gas curtailment not exceed 336 cumulative hours per calendar year plus 48 hours per year for testing. [Rules 4305 and 4351]
25. Fuel oil consumption shall not exceed 47.0 barrels per day of operation on fuel oil. [District NSR Rule], [Federally Enforceable Through Title V]
26. Oil fired emission rate shall not exceed any of the following: PM<sub>10</sub>: 0.67 lb/bbl; SO<sub>x</sub> (as SO<sub>2</sub>): 8.76 lb/bbl; NO<sub>x</sub> (as NO<sub>2</sub>): 3.32 lb/bbl; VOC: 0.04 lb/bbl; and CO: 0.21 lb/bbl. [District NSR Rule], [Federally Enforceable Through Title V]
27. Gas fired emission shall not exceed any of the following: PM<sub>10</sub>: 0.005 lb/MMBtu, SO<sub>x</sub> (as SO<sub>2</sub>): 0.0006 lb/MMBtu, NO<sub>x</sub> (as NO<sub>2</sub>): 0.036 lb/MMBtu, VOC: 0.003 lb/MMBtu or CO: 46.6 ppmv @ 3% O<sub>2</sub>. [District Rule 2201 and Rule 4305], [Federally Enforceable Through Title V]
28. Unit shall be equipped with flue gas recirculation valve position indicator. [District Rules 2201 and 4305], [Federally Enforceable Through Title V]
29. The acceptable FGR valve settings shall be established by testing emissions from this unit or other representative units as approved by the District. The acceptable settings shall be the minimum FGR recirculation rate setting with which compliance with applicable NO<sub>x</sub> and CO emissions limits have been demonstrated through source testing at a similar firing rate. [District Rule 4305 and 2520, 9.4.2], [Federally Enforceable Through Title V]
30. The flue gas recirculation valve shall be inspected at least on a weekly basis. [District Rule 4305 and 2520, 9.4.2], [Federally Enforceable Through Title V]
31. If the FGR valve setting is not within the acceptable setting, the permittee shall notify the District and return the valve setting to within the acceptable range within one (1) hour after detection. If the FGR valve setting is not corrected within (1) hour, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emissions limits at the observed FGR valve settings. [District Rule 4305 and 2520, 9.4.2], [Federally Enforceable Through Title V]

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32. The permittee shall maintain records of the date and time of FGR valve setting observations and the observed setting. The records shall also include a description of any corrective action taken to maintain FGR valve setting at or above the minimum acceptable setting. These records shall be retained at the facility and shall be made available for District inspection upon request. [District Rule 4305 and 2520, 9.4.2], [Federally Enforceable Through Title V]
33. Compliance source testing shall be conducted under conditions representative of normal operation. [District Rule 1081], [Federally Enforceable Through Title V]
34. Steam generator exhaust stack shall be equipped with adequate provisions facilitating the collection of gas samples consistent with EPA Test Methods. [District Rule 1081], [Federally Enforceable Through Title V]
35. Source testing to measure NO<sub>x</sub> and CO emissions shall be conducted within 60 days of startup and not less than once every 12 months, except as provided below. [District Rules 4305, 4351, and 2520, 9.4.2], [Federally Enforceable Through Title V]
36. Source testing to measure NO<sub>x</sub> and CO emissions shall be conducted not less than once every 36 months if compliance is demonstrated on two consecutive annual tests. [District Rules 4305, 4351, and 2520, 9.4.2], [Federally Enforceable Through Title V]
37. If permittee fails any compliance demonstration for NO<sub>x</sub> and/or CO emission limits when testing not less than once every 36 months, compliance with NO<sub>x</sub> and CO emission limits shall be demonstrated not less than once every 12 months. [District Rules 4305, 4351, and 2520, 9.4.2], [Federally Enforceable Through Title V]
38. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081], [Federally Enforceable Through Title V]
39. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081], [Federally Enforceable Through Title V]
40. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081], [Federally Enforceable Through Title V]
41. The following test methods shall be used: NO<sub>x</sub> (ppmv) - EPA Method 7E or ARB Method 100, NO<sub>x</sub> (lb/MMBtu) - EPA Method 19, CO (ppmv) - EPA Method 10 or ARB Method 100, and stack gas oxygen - EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4351 and 2520, 9.4.2], [Federally Enforceable Through Title V]
42. Permittee shall monitor and record the cumulative annual hours of operation on liquid fuel during all periods, including those of natural gas curtailment and testing. [District Rule 4305 and 2520, 9.4.2]
43. District shall be notified in writing at least 7 days prior to each transfer between District approved location, giving the exact location of the move. [District NSR Rule], [Federally Enforceable Through Title V]
44. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 forty-minute test runs for NO<sub>x</sub> and CO. This mean shall be multiplied by the appropriate factor. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
45. When firing on fuel oil, weekly visible emissions inspection shall be performed using EPA Method 9. If visible emissions are observed, corrective action shall be taken to eliminate excessive visible emissions. [District rule 2520, 9.4.2], [Federally Enforceable Through Title V]
46. Records of inspections shall be kept and made available to the District upon request. The record shall at least include date and time of inspection, equipment description, corrective action taken, and identification of an individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-25-9

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

16.8 MMBTU/HR DUAL FIRED HEATER TREATER (CFJ 304), INCLUDING ONE HTI 16.8 MM BTU/HR HEATER TREATER AND TWO NORTH AMERICAN MODEL 6121 8.4-H DUAL FUEL BURNER ASSEMBLIES.

## **PERMIT UNIT REQUIREMENTS**

1. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
2. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. Particulate matter emissions shall not exceed 0.1 grain/dscf, calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
4. Source testing shall be performed using EPA Method 5 while firing on residual oil (including crude or topped crude) to demonstrate compliance with PM emission limits. Source testing shall be performed within 60 days of firing on residual oil unless such testing has been performed within the 12 month period prior to firing on said oil and the test results showed compliance with PM emission limits of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072-80, D 3031-81, D 4084-82, D 3246-81 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
8. If the unit is fired on noncertified liquid fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the liquid fuel being fired in the unit shall be determined using ASTM D 2880-71. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by: ASTM D 240-87 or D 2382-88 for liquid hydrocarbon fuels; ASTM D 1826-88 or D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels. [District Rule 2520, 9.4.2; 4305, 6.2.1; and 4351, 6.2.1], [Federally Enforceable Through Title V]
10. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume as measured on a dry basis over a 15 minute period. To demonstrate compliance with this requirement the operator shall do one of the following: fire the unit only on PUC or FERC regulated natural gas or diesel fuel not exceeding 0.5% sulfur by weight; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or 3.0% by weight for residual oil (including crude or topped crude); or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [Kern County Rule 407, District Rule 4301, 5.2.1, District Rule 4801, and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]



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11. Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. For residual and crude oil fired units, compliance may be demonstrated through supplier certification of nitrogen content and heating value or by weekly fuel testing for nitrogen content and heating value. Hourly emissions shall be calculated using the heating value, maximum rated unit capacity, and the following formula:  $\text{lb NO}_2/1000 \text{ gal} = 20.54 + 104.39 (N)$ , where N is the weight % nitrogen in the fuel. If compliance with the NO<sub>x</sub> emission limit is demonstrated through the fuel nitrogen content testing and compliance has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be bi-annually. If a bi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rules 4301, 5.2.2 and 2520, 9.4.2], [Federally Enforceable Through Title V]
12. If the unit is fired on noncertified residual or crude oil and compliance with NO<sub>x</sub> emission limits is achieved through fuel nitrogen content testing, then the nitrogen content of the fuel being fired in the unit shall be determined using ASTM D3431-80. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements of SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
14. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
15. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
16. Unit shall be equipped with a non-resettable fuel flow meter. Volumetric flow measurements shall be periodically compensated for temperature and pressure. A master meter, which measures fuel to all units in a group of similar units, may satisfy this requirement if approved by the APCO in writing. [District Rule 4305]
17. All wells producing from strata steamed by this unit shall be connected to a District-approved emissions control system, have District-approved closed casing vents or be District-approved uncontrolled cyclic wells. [District Rule 4401], [Federally Enforceable Through Title V]
18. Unit shall operate only on natural gas with hydrogen sulfide content not exceeding 0.01% by volume. [District NSR Rule], [Federally Enforceable Through Title V]
19. Fuel oil preheat and atomization equipment shall be operated and maintained as intended by manufacturer. [District NSR Rule], [Federally Enforceable Through Title V]
20. Burner shall be equipped with the following instrumentation: fuel oil preheat temperature indicator, fuel oil and steam injection pressure indicators and fuel volume flowrate indicator. [District NSR Rule], [Federally Enforceable Through Title V]
21. Fuel consumption shall not exceed 1715 gallons per day without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
22. Fuel usage shall be less than 30 billion BTU per calendar year. [District Rule 4305]
23. Oil fired emission rate shall not exceed any of the following: PM<sub>10</sub>: 1.09 lb/bbl; SO<sub>x</sub> (as SO<sub>2</sub>): 14.41 lb/bbl; NO<sub>x</sub> (as NO<sub>2</sub>): 3.95 lb/bbl; VOC: 0.07 lb/bbl; or CO: 0.364 lb/bbl. [District NSR Rule], [Federally Enforceable Through Title V]
24. Natural gas fired emission rate shall not exceed any of the following: PM<sub>10</sub> - 0.005 lb/MMBtu, SO<sub>x</sub> (as SO<sub>2</sub>) - 0.0006 lb/MMBtu, NO<sub>x</sub> (as NO<sub>2</sub>) - 0.14 lb/MMBtu, VOC - 0.003 lb/MMBtu, or CO - 46.6 ppmv @ 3% O<sub>2</sub>. [District NSR Rule], [Federally Enforceable Through Title V]
25. Permittee shall maintain accurate records of daily and annual fuel usage, fuel heat content, and name and company of technician (if any) tuning the unit and make such records readily available for District inspection upon request. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
26. Permittee shall either tune the unit at least once each calendar year in which it operates by a technician that is qualified in accordance with the procedure described in District Rule 4304, or operate the unit in a manner that maintains exhaust O<sub>2</sub> at less than or equal to 3.00% by volume on a dry basis. [District Rule 4305]
27. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 forty-minute test runs for NO<sub>x</sub> and CO. This mean shall be multiplied by the appropriate factor. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
28. When firing on fuel oil, weekly visible emissions inspection shall be performed using EPA Method 9. If visible emissions are observed, corrective action shall be taken to eliminate excessive visible emissions. [District rule 2520, 9.4.2], [Federally Enforceable Through Title V]
29. Records of inspections shall be kept and made available to the District upon request. The record shall at least include date and time of inspection, equipment description, corrective action taken, and identification of an individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

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**Air Pollution Control District**

**PERMIT UNIT:** S-1246-33-10

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

62.5 MMBTU/HR THERMOTICS STEAM GENERATOR WITH THERMOTICS SO<sub>2</sub> SCRUBBER AND O<sub>2</sub> CONTROLLER \*\*  
PERMIT TO OPERATE CANCELLED UPON IMPLEMENTATION OF ATC #S-1246-269-0, JEG, 5/5/98 \*\*

## **PERMIT UNIT REQUIREMENTS**

1. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
2. All wells producing from strata steamed by this unit shall be connected to a District-approved emissions control system, have District-approved closed casing vents or be District-approved uncontrolled cyclic wells. [District Rule 4401]
3. Steam generator firebox convection section, scrubber bypass valve, and all flue gas ductwork shall be maintained with no detectable leaks. [District NSR Rule]
4. Scrubber recirculation liquor pH shall be maintained between 6.0 and 7.0. [District NSR Rule]
5. Scrubber recirculation liquid pH shall be maintained only by the addition of caustic unless prior approval for an alternative pH maintenance method is received from the District. [District NSR Rule]
6. Scrubber recirculation liquor liquid to gas ratio shall be maintained at no less than 32.2 gpm/1000 acfm. [ ]
7. Scrubber shall not utilize untreated produced water as recirculation or makeup liquid. [ ]
8. Scrubber recirculation liquor shall be conditioned with an adequate amount of scale and foam inhibitor. [ ]
9. Burner shall be equipped with the following instrumentation: fuel oil preheat temperature indicator, fuel oil and steam injection pressure indicators and fuel volume flowrate indicator. [ ]
10. Fuel oil preheat and atomization equipment shall be operated and maintained as intended by manufacturer. [ ]
11. Fuel oil sulfur content shall not exceed 0.98% by weight. [ ]
12. Fuel oil consumption shall not exceed 343 gallons per hour without prior District approval. [ ]
13. If continuous operation oxygen analyzer/controller is utilized, excess O<sub>2</sub> shall be maintained between 0.5 and 3.0%. If not utilized, excess air shall be maintained at no less than 15%. [District NSR Rule]
14. Sufficient calibration gas for O<sub>2</sub> analyzer shall be available at all times. [ ]
15. When fired on gas, steam generator may operate without scrubber. [ ]
16. Permittee shall submit compliance testing plan to the District prior to annual permit expiration date. [ ]
17. Compliance testing shall be conducted annually as required by the District-approved plan. [District Rule 1081]
18. Compliance source testing shall be conducted under conditions representative of normal operation. [District Rule 1081]
19. Should source testing indicate an emission factor higher than that approved, the operator shall comply with Rule 1100 and, if necessary, submit an application for Authority to Construct to incorporate the higher emission factor into the SLC. [District NSR Rule]
20. The permittee shall maintain records of fuel type, quantity, permitted emission factors and emissions for each unit for each day of operation, in the format approved by the District. [District NSR Rule]
21. Records required by this permit shall be retained on site for a period of at least five years and shall be made readily available for District inspection upon request. [District NSR Rule]
22. Total daily emissions of each air contaminant, and total daily fuel used, for each unit subject to the SLC and for each day of the month, shall be submitted to the District quarterly, if no SLC violations occurred in the previous six months. [District NSR Rule]
23. Total daily emissions of each air contaminant, and total daily fuel used, for each unit subject to the SLC and for each day of the month, shall be submitted to the District monthly, if SLC violations occurred in the previous six months. [District NSR Rule]

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24. Reports of daily emissions and fuel usage, as required by this permit for units in the SLC, shall be submitted within 30 days after the end of the reporting period. [District NSR Rule]
25. For units equipped with continuous emissions monitors (CEMs), CEM records shall be used in place of calculated emissions. [District NSR Rule]
26. The operator shall apply to revise each Permit to Operate subject to the SLC when any unit subject to the SLC has a District-authorized change in daily emission rate, or Permit to Operate is surrendered or sold. [District NSR Rule]
27. If fuel use monitoring provisions fail, emissions shall be calculated based on operational data, or if not available, set equal to the average of four days prior to failure and permittee shall meet the requirements of Rule 1100 for CEM's. [ ]
28. Natural gas fired emission rate for this unit shall not exceed: PM10 - 5.0 lb/mmscf, SOx (as SO2) - 0.6 lb/mmscf, NOx (as NO2) - 140.0 lb/mmscf, VOC - 2.8 lb/mmscf, and CO - 35.0 lb/mmscf. [ ]
29. Oil fired emission rate for this unit shall not exceed: PM10 - 0.40 lb/bbl, SOx (as SO2) - 0.50 lb/bbl, NOx (as NO2) - 1.20 lb/bbl, VOC - 0.02 lb/bbl, and CO - 0.22 lb/bbl. [ ]
30. Emission rate for all units subject to SLC shall not exceed: PM10 - 297.6 lb/day, SOx (as SO2) - 1,877.6 lb/day, NOx (as NO2) - 1,685.6 lb/day, VOC - 36.6 lb/day, and CO - 379.5 lb/day. [ ]
31. For this emission unit the overall throttle and use factor used in the SLC plan is 100% for gas-fired and 72% for oil-fired. [ ]

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**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-43-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

25.0 MMBTU/HR REPLACEMENT/STANDBY STRUTHERS STEAM GENERATOR WITH COEN BURNER

## **PERMIT UNIT REQUIREMENTS**

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1. If continuous operation oxygen analyzer/controller is utilized, excess O<sub>2</sub> shall be maintained between 0.5 and 3.0%. If not utilized, excess air shall be maintained at no less than 15%. [District Rule 4405]
2. Steam generator shall be fired exclusively on natural gas or LPG and shall have no provisions for firing on fuel oil. [District Rule 2201]
3. Fuel usage shall be less than 90 billion BTU per calendar year. [District Rule 2201, 4305]
4. This permit unit shall only operate during breakdown or maintenance of at least one of the following primary permit units S-2265-1, S-1246-252, -253, and -254. [District Rule 4305]
5. This permit unit shall not operate when all primary permit units, S-2265-1, S-1246-252, -253, and -254, are operating except during start-up or shutdown of a primary unit. [District Rule 4305]
6. Permittee shall either tune the unit at least once each calendar year in which it operates by a technician that is qualified in accordance with the procedure described in District Rule 4304, or operate the unit in a manner that maintains exhaust O<sub>2</sub> at less than or equal to 3.00% by volume on a dry basis. [District Rule 4305]
7. Permittee shall maintain accurate records of annual fuel usage, fuel heat content, and name and company of technician (if any) tuning the unit for a minimum of two years and make such records readily available for District inspection upon request. [District Rule 2201, 4305]
8. All permits for facilities #S-1246 and #S-2265 are included in Berry Petroleum Company's Heavy Oil Western stationary source. [District Rule 2201]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-44-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

25.0 MMBTU/HR REPLACEMENT/STANDBY STRUTHERS STEAM GENERATOR WITH COEN BURNER

## **PERMIT UNIT REQUIREMENTS**

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1. If continuous operation oxygen analyzer/controller is utilized, excess O<sub>2</sub> shall be maintained between 0.5 and 3.0%. If not utilized, excess air shall be maintained at no less than 15%. [District Rule 4405]
2. Steam generator shall be fired exclusively on natural gas or LPG and shall have no provisions for firing on fuel oil. [District Rule 2201]
3. Fuel usage shall be less than 90 billion BTU per calendar year. [District Rule 2201, 4305]
4. This permit unit shall only operate during breakdown or maintenance of at least one of the following primary permit units S-2265-1, S-1246-252, -253, and -254. [District Rule 4305]
5. This permit unit shall not operate when all primary permit units, S-2265-1, S-1246-252, -253, and -254, are operating except during start-up or shutdown of a primary unit. [District Rule 4305]
6. Permittee shall either tune the unit at least once each calendar year in which it operates by a technician that is qualified in accordance with the procedure described in District Rule 4304, or operate the unit in a manner that maintains exhaust O<sub>2</sub> at less than or equal to 3.00% by volume on a dry basis. [District Rule 4305]
7. Permittee shall maintain accurate records of annual fuel usage, fuel heat content, and name and company of technician (if any) tuning the unit for a minimum of two years and make such records readily available for District inspection upon request. [District Rule 2201, 4305]
8. All permits for facilities #S-1246 and #S-2265 are included in Berry Petroleum Company's Heavy Oil Western stationary source. [District Rule 2201]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-45-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

25.0 MMBTU/HR REPLACEMENT/STANDBY STRUTHERS STEAM GENERATOR WITH COEN BURNER

## **PERMIT UNIT REQUIREMENTS**

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1. If continuous operation oxygen analyzer/controller is utilized, excess O<sub>2</sub> shall be maintained between 0.5 and 3.0%. If not utilized, excess air shall be maintained at no less than 15%. [District Rule 4405]
2. Steam generator shall be fired exclusively on natural gas or LPG and shall have no provisions for firing on fuel oil. [District Rule 2201]
3. Fuel usage shall be less than 90 billion BTU per calendar year. [District Rule 2201, 4305]
4. This permit unit shall only operate during breakdown or maintenance of at least one of the following primary permit units S-2265-1, S-1246-252, -253, and -254. [District Rule 4305]
5. This permit unit shall not operate when all primary permit units, S-2265-1, S-1246-252, -253, and -254, are operating except during start-up or shutdown of a primary unit. [District Rule 4305]
6. Permittee shall either tune the unit at least once each calendar year in which it operates by a technician that is qualified in accordance with the procedure described in District Rule 4304, or operate the unit in a manner that maintains exhaust O<sub>2</sub> at less than or equal to 3.00% by volume on a dry basis. [District Rule 4305]
7. Permittee shall maintain accurate records of annual fuel usage, fuel heat content, and name and company of technician (if any) tuning the unit for a minimum of two years and make such records readily available for District inspection upon request. [District Rule 2201, 4305]
8. All permits for facilities #S-1246 and #S-2265 are included in Berry Petroleum Company's Heavy Oil Western stationary source. [District Rule 2201]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-46-6

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

30.0 MMBTU/HR STRUTHERS STEAM GENERATOR WITH NORTH AMERICAN BURNER WITH FGR. (AUTHORIZED LOCATIONS: NE21, T30S, R22E AND NE11, T31S, R22E)

## **PERMIT UNIT REQUIREMENTS**

1. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Last Amended December 16, 1993). [District Rule 1081 and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
2. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. Particulate matter emissions shall not exceed 0.1 grain/dscf, calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
4. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072-80, D 3031-81, D 4084-82, D 3246-81 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. If fuel analysis is used to demonstrate compliance with conditions of this permit, the fuel higher heating value for each fuel shall be certified by a third party fuel supplier or determined by ASTM D 1826-88 or D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels. [District Rule 2520, 9.4.2; 4305, 6.2.1; and 4351, 6.2.1], [Federally Enforceable Through Title V]
8. Sulfur emissions shall not exceed 0.11 lb of sulfur per million BTU of heat input, averaged over 3 - one hour periods. Compliance with this requirement may be demonstrated by firing the unit only on PUC or FERC regulated natural gas; multiplying the reported sulfur content of each fuel in lb/MMBtu by the maximum heat input rating of the unit; or by a combination of source testing for sulfur compounds and fuel analysis. Compliance may be demonstrated for this unit individually, or by showing that the total emissions of sulfur compounds from all steam generators located at the stationary source with ATC or PTO issued prior to September 12, 1979 does not exceed the emissions that would result if each unit was operating in compliance with the specified limit. [Kern County Rule 424 and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. [District Rules 4301, 5.2.2, 5.3, and 5.5 and 2520, 9.4.2], [Federally Enforceable Through Title V]
10. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
11. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
12. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

## Initial TV Permit

13. The requirements of SJVUAPCD Rule 4351(Amended October 19, 1995) do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
14. Generator/boiler shall be fired exclusively on natural gas or LPG and shall have no provisions for firing on fuel oil. [District NSR Rule], [Federally Enforceable Through Title V]
15. Oxides of nitrogen emissions shall not exceed 0.036 pound per million BTU of heat input. [District Rule 4305]
16. Emission limits for the following compounds shall not exceed 0.52 lbm/hr of SO<sub>2</sub> and 1.08 lbm/hr of NO<sub>2</sub>. [District NSR Rule and District Rule 4305], [Federally Enforceable Through Title V]
17. Carbon monoxide emissions shall not exceed 400 ppmv @ 3% O<sub>2</sub>. [District Rule 4305]
18. Permittee shall keep weekly records of flue gas recirculation (FGR) rate (%), including date and time of measurement, stack and windbox O<sub>2</sub> levels measured. [District Rule 4305 and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
19. If any deviation from the normal range or level are observed, records shall be maintained of the types of corrective actions taken and time and dates of such corrective action. [District Rule 4305 and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
20. If equipment is operated outside the normal range, permittee shall notify the District within one hour after detection. [District Rule 4305 and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
21. If equipment is operated outside the normal range for more than one hour, permittee shall conduct an emissions source test for NO<sub>x</sub> and CO emissions at the observed O<sub>2</sub> levels and burner settings within 60 days of the deviation. [District Rules 4305 and 2520, 9.4.2], [Federally Enforceable Through Title V]
22. Minimum FGR rate shall be established based on District approved source test. [District Rule 4305]
23. Source testing to measure NO<sub>x</sub> and CO emissions shall be conducted not less than once every 12 months, except as provided below. [District Rules 4305 and 2520, 9.4.2], [Federally Enforceable Through Title V]
24. Compliance with NO<sub>x</sub> and CO emission limits shall be demonstrated not less than once every 36 months if compliance is demonstrated on two consecutive annual compliance tests. [District Rules 4305 and 2520, 9.4.2], [Federally Enforceable Through Title V]
25. If permittee fails any compliance demonstration for NO<sub>x</sub> and CO emission limits when testing not less than once every 36 months, compliance with NO<sub>x</sub> and CO emission limits shall be demonstrated not less than once every 12 months. [District Rules 4305 and 2520, 9.4.2], [Federally Enforceable Through Title V]
26. Compliance with sulfur compounds emission sampling limits shall be demonstrated by fuel gas sulfur analysis by independent testing laboratory annually 60 days prior to permit anniversary date, and official test results submitted within 60 days. [District Rule 1081], [Federally Enforceable Through Title V]
27. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081], [Federally Enforceable Through Title V]
28. Testing for nitrogen oxides shall be conducted in accordance with CARB Method 7 or CARB Method 20. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
29. Testing for carbon monoxide shall be conducted in accordance with CARB Method 1-5 with 10, EPA Method 10 or 10B, or CARB Method 100. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
30. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 forty-minute test runs for NO<sub>x</sub> and CO. This mean shall be multiplied by the appropriate factor. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]



**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-48-0

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

210,000 GALLON (5,000 BBL) FIXED ROOF PETROLEUM STORAGE TANK, (SUMP REPLACEMENT TANK)

## **PERMIT UNIT REQUIREMENTS**

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1. All access openings, gauge hatches, etc. shall be equipped with covers and vapor-tight gaskets and maintained leak-free. [ ]
2. The tank PV valve shall be set to within 10% of the maximum allowable working pressure of the tank. [District Rule 4623]
3. Tank shall be equipped with stored liquid temperature indicator. [ ]
4. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 0.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [ ]
5. Tank daily throughput shall not exceed 2,000 bbl/day. [ ]
6. Tank PV vent shall not vent unless pressure exceeds 1 in. wc. [ ]
7. The operator shall keep accurate records of types, storage temperature and Reid vapor pressure of liquids stored. [District Rule 4623]

**Initial TV Permit**  
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**Air Pollution Control District**

**PERMIT UNIT:** S-1246-49-0

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

42,000 GALLON, (1000 BBL) FIXED ROOF CRUDE OIL SUMP REPLACEMENT TANK, 21' 6.5" DIA. X 16' 1" HIGH, WITH PRESSURE/VACUUM RELIEF BREATHER VALVE. (CANCELLED BY PERMITTEE AT RENEWAL BILLING - TEG 2/24/98)

## **PERMIT UNIT REQUIREMENTS**

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1. The tank PV valve shall be set to within 10% of the maximum allowable working pressure of the tank. [District Rule 4623]
2. All access openings, gauge hatches, etc. shall be equipped with covers and vapor tight gaskets and maintained leak-free. [ ]
3. Tank shall be equipped with stored liquid temperature indicator. [ ]
4. True vapor pressure of crude oil stored shall not exceed 1.25 psia. [ ]
5. Tank daily throughput shall not exceed 2,000 bbl/day (84,000 gal/day). [ ]
6. Tank PV vent shall not vent unless pressure exceeds 3 in. wc. [ ]
7. The operator shall keep accurate records of daily amounts, storage temperature and true vapor pressure of liquids stored and make such records readily available for District inspection upon request. [ ]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-55-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

420,000 GALLON FIXED ROOF CRUDE OIL STORAGE TANK W/VC SYSTEM, WITH: 55'DIA X24'HI TANK, G/L SEPARATOR 1.5'MIN DIA, 4'MIN LENGTH, 100 HP COMPRESSOR, SHARED W/S-1246-56 AND PIPED TO GAS LINE SERVING S-1246-9, '11, '25 AND HEATER TREATER

## **PERMIT UNIT REQUIREMENTS**

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1. The vapor control system control efficiency shall be maintained at no less 95% by weight. [District Rule 4623 and District NSR Rule], [Federally Enforceable Through Title V]
  2. Tank seams, welds, joints, piping, valves, and fittings shall be inspected and maintained in gas-tight (as defined in Rule 4623) condition. [District NSR Rule], [Federally Enforceable Through Title V]
  3. Tank gauge hatches, sampling ports, etc. shall be equipped with gas-tight covers which shall remain closed at all times except during gauging, sampling or attended maintenance operations. [District NSR Rule], [Federally Enforceable Through Title V]
  4. Tank shall vent to vapor control system listed below. [District NSR Rule], [Federally Enforceable Through Title V]
  5. Vapor control system consists of vapor piping from tanks S-1246-55 and '56, separator(s), vapor compressor, and compressed vapor piping to gas line serving heater treaters PTO's S-1246-9, '-11, '-25 and permit-exempt 4.2 MM BTU/hr heater treater and to inlet of TEOR vapor control system S-1246-268. [District NSR Rule], [Federally Enforceable Through Title V]
  6. Gas/liquid separator condensate shall be piped only to vapor-controlled storage tanks. [District NSR Rule], [Federally Enforceable Through Title V]
  7. Mixture of natural gas, field gas, and tank vapors incinerated in heater treaters PTO's S-1246-9, '-11, '-25 and permit-exempt 4.2 MM BTU/hr heater treater shall not exceed 0.75 gr/100 scf sulfur. [District NSR Rule], [Federally Enforceable Through Title V]
  8. True vapor pressure of liquid stored shall not exceed 0.81 psia at storage conditions. [District NSR Rule], [Federally Enforceable Through Title V]
  9. Maximum daily throughput for this tank shall not exceed 7,600 bbl/day. [District NSR Rule], [Federally Enforceable Through Title V]
  10. Permittee shall maintain records of daily tank throughput. Records shall be made readily available for District inspection upon request. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  11. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
  12. All piping, fittings, and valves shall be inspected annually by the facility operator in accordance with EPA Method 21, with the instrument calibrated with methane, to ensure compliance with the provisions of this permit. If any of the tank components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If no tank components are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired at the next process unit turnaround (the scheduled shutdown of a unit for maintenance and repair work). [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  13. The facility operator, upon detection of a leaking component, shall affix to that component a weatherproof readily visible tag bearing the date on which the leak is detected. The tag shall remain in place until the leaking component is repaired, reinspected and found to be in compliance with the requirements of this rule. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  14. An operator shall reinspect a component for leaks within thirty working days after the date on which the component is repaired. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  15. Emissions from components which have been tagged by the facility operator for repair within 15 calendar days or which have been repaired and are awaiting re-inspection shall not be in violation of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

16. Any component leak shall be repaired to a leak-free condition or vented to a vapor control device within fifteen (15) calendar days of detection. The APCO may grant a ten (10) calendar day extension provided the operator demonstrates that necessary and sufficient actions are being taken to correct the leak within this time period. Any vapor control device used to comply with this condition shall be determined the control efficiency by EPA Method 25 at least annually. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. If the leaking component is an essential part of a critical process unit which cannot be immediately shut down for repairs, the operator shall 1) Minimize the leak within 15 calendar days; and 2) If the leak which has been minimized still exceeds the concentration allowed by this permit, the essential component shall be repaired to eliminate the leak during the next process unit turnaround, but in no case later than one year from the date of the original leak detection. A critical process unit is any process unit which would result in the automatic shutdown of other process units if it were shut down. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
18. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date of leak detection, and method of detection; 3) Date and emission level of recheck after leak is repaired; 4) Identification and location of essential parts of critical process units found leaking that cannot be repaired until the next process unit turnaround; and 5) Method used to minimize the leak from essential parts of critical process units which cannot be repaired until the next process unit turnaround. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
19. The operator shall ensure that the vapor recovery system is functional and is operating as designed at all times. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
20. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
21. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
22. Control efficiency shall be determined by a comparison of controlled emissions to those emissions which would occur from a fixed or cone roof tank in the same product service without a vapor recovery system. Emissions shall be determined based on tank emission factors in EPA Publication AP-42, component counts for fugitive emissions sources, recognized emission factors for fugitive emission sources and the efficiency of any VOC destruction device. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
23. The efficiency of any VOC destruction device shall be measured by EPA Method 25, 25a, or 25b. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
24. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
25. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
26. As used in this permit, the term " source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-56-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

420,000 GALLON (10,000 BBL) FIXED-ROOF CRUDE OIL STORAGE TANK, 55' DIA. X 24' HIGH TANK WITH VAPOR COLLECTION PIPING TO VAPOR CONTROL SYSTEM SHARED WITH S-1346-55.

## **PERMIT UNIT REQUIREMENTS**

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1. The tank shall be equipped with a vapor loss prevention system consisting of vapor and condensate collection systems capable of reducing VOC emissions by at least 95%. [District Rule 4623]
  2. All tank vapors shall discharge into vapor control system. [District NSR Rule]
  3. True vapor pressure of liquid stored shall not exceed 0.81 psia at storage conditions without prior District approval. [District NSR Rule]
  4. Gas/liquid separator condensate shall be piped only to vapor-controlled storage tanks. [District NSR Rule]
  5. Vapor control system compressed gas shall only be piped to gas line serving heater treaters PTO's S-1246-9-1, '-11-0, '-25-0 and permit-exempt 4.2 MM BTU/hr heater treater. [District NSR Rule]
  6. Mixture of natural gas, field gas, and tank vapors incinerated in heater treaters PTO's S-2146-9-1, '-11-0, '-25-0 and permit-exempt 4.2 MM BTU/hr heater treater shall not exceed 0.75 gr/100 scf sulfur. [District NSR Rule]
  7. Tank seams, welds, joints, piping, valves, and fittings shall be inspected and maintained in gas-tight condition. [District NSR Rule]
  8. Tank gauge hatches, sampling ports, etc. shall be equipped with gas-tight covers which shall remain closed at all times except during gauging, sampling or attended maintenance operations. [District NSR Rule]
  9. Gas-tight for this operation is as defined in Rule 4623. [District NSR Rule]
  10. Maximum emission rate of VOC from this permit unit shall not exceed 0.72 lbm/day. [District NSR Rule]
  11. Maximum daily throughput for this tank shall not exceed 7,600 bbl/day. [District NSR Rule]
  12. Berry Petroleum shall maintain records of daily tank throughput. Records shall be made readily available for District inspection upon request for a period of two years. [District NSR Rule]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-59-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

62.5 MMBTU/HR C.E. NATCO GAS FIRED STEAM GENERATOR WITH NORTH AMERICAN 4131-G-LNX-FGR BURNER AND FLUE GAS RECIRCULATION

## **PERMIT UNIT REQUIREMENTS**

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1. All wells producing from strata steamed by this unit shall be connected to a District-approved emissions control system, have District-approved closed casing vents or be District-approved uncontrolled cyclic wells. [District Rule 4401]
2. Sampling facilities for source testing shall be provided in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081]
3. Flue gas recirculation system shall be operational at all times. [District NSR Rule]
4. Compliance testing shall be conducted annually as required by the District-approved plan. [District Rule 1081]
5. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081]
6. Unit shall be equipped with operational fuel gas flow meter. [District NSR Rule]
7. Fuel gas sulfur content shall not exceed 0.1 grain/100 scf. [District NSR Rule]
8. Fuel used in unit shall not exceed 1,425 MSCF/day on a calendar quarter average without prior District approval. [District NSR Rule]
9. Emission rate shall not exceed PM10: 0.005 lb/MMBtu, SOx (as SO2): 0.0003 lb/MMBtu, NOx (as NO2): 0.043 lb/MMBtu, VOC: 0.003 lb/MMBtu, and CO: 0.035 lb/MMBtu. [District NSR Rule]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-61-3

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

62.5 MMBTU/HR NATURAL GAS-FIRED STEAM GENERATOR WITH NORTH AMERICAN MODEL 4131-G-LNX-FGR BURNER WITH FGR

**PERMIT UNIT REQUIREMENTS**

1. This permit unit shall not be operated unless the owner or operator applies to modify the Title V permit to address the requirements of District Rule 2520, section 9.0 for this permit unit. [District Rule 2520, 9.0], [Federally Enforceable Through Title V]
2. All wells producing from strata steamed by this unit shall be connected to a District-approved emissions control system, have District-approved closed casing vents or be District-approved uncontrolled cyclic wells. [District Rule 4401 and District NSR Rule], [Federally Enforceable Through Title V]
3. Flue gas recirculation system shall be operational at all times. [District NSR Rule], [Federally Enforceable Through Title V]
4. Fuel gas sulfur content shall not exceed 0.1 grain/100 scf. [District NSR Rule], [Federally Enforceable Through Title V]
5. Fuel used in unit shall not exceed 1,425 MSCF/day on a calendar quarter average without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
6. Emission rate shall not exceed PM10: 0.005 lb/MMBtu, SO<sub>x</sub> (as SO<sub>2</sub>): 0.0003 lb/MMBtu, NO<sub>x</sub> (as NO<sub>2</sub>): 0.043 lb/MMBtu or 35.8 ppm @ 3%, VOC: 0.003 lb/MMBtu, and CO: 46.7 ppm @ 3% O<sub>2</sub>. [District NSR Rule], [Federally Enforceable Through Title V]
7. Compliance testing shall be conducted annually as required by the District-approved plan. [District Rule 1081], [Federally Enforceable Through Title V]
8. Sampling facilities for source testing shall be provided in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081], [Federally Enforceable Through Title V]
9. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081], [Federally Enforceable Through Title V]
10. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081], [Federally Enforceable Through Title V]
11. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081], [Federally Enforceable Through Title V]
12. The following test methods shall be used: NO<sub>x</sub> (ppmv) - EPA Method 7E or ARB Method 100, NO<sub>x</sub> (lb/MMBtu) - EPA Method 19, CO (ppmv) - EPA Method 10 or ARB Method 100, and stack gas oxygen - EPA Method 3 or 3A or ARB Method 100. [District Rules 1081, 4305, and 4351], [Federally Enforceable Through Title V]
13. This unit shall not be operated until an Authority to Construct (ATC) for compliance with the requirements of Rule 4305 has been issued to the permittee. [District Rule 4305, 7.4 and District NSR Rule], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-66-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

63,000 GALLON FIXED-ROOF PETROLEUM STORAGE TANK #53052, BOGP LEASE

## **PERMIT UNIT REQUIREMENTS**

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]



**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-68-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

10,500 GALLON FIXED ROOF PETROLEUM SKIM TANK, BOGP LEASE

## **PERMIT UNIT REQUIREMENTS**

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080], [Federally Enforceable Through Title V]
2. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
3. The owner or operator shall not store, hold, or place any gasoline into this tank unless the tank is equipped with a pressure relief valve set within 10 percent of the maximum allowable working pressure or a vapor control system capable of reducing VOC emissions by at least 95%. [District Rule 4623, 5.4], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-69-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

84,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #2001, BGOP LEASE

## **PERMIT UNIT REQUIREMENTS**

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term " source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-70-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

10,500 GALLON FIXED ROOF PETROLEUM STORAGE TANK #20707, DEEP LEASE

## **PERMIT UNIT REQUIREMENTS**

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080], [Federally Enforceable Through Title V]
2. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
3. The owner or operator shall not store, hold, or place any gasoline into this tank unless the tank is equipped with a pressure relief valve set within 10 percent of the maximum allowable working pressure or a vapor control system capable of reducing VOC emissions by at least 95%. [District Rule 4623, 5.4], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-71-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

21,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #20800, DEEP LEASE

## **PERMIT UNIT REQUIREMENTS**

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-72-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

21,000 GALLON FIXED ROOF PETROLEUM WASH TANK, DEEP LEASE

## **PERMIT UNIT REQUIREMENTS**

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-77-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

210,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10750 WITH VAPOR CONTROL SYSTEM SERVING TANKS S-1246-77, '78, '79, '80. - B&E LEASE

## **PERMIT UNIT REQUIREMENTS**

1. Tank shall vent only to vapor control system listed below. [District NSR Rule], [Federally Enforceable Through Title V]
2. The vapor control system shall be capable of reducing VOC emissions by at least 95% by weight. [District NSR Rule], [Federally Enforceable Through Title V]
3. Tank seams, welds, joints, piping, valves, and fittings shall be inspected and maintained in gas-tight (as defined in Rule 4623) condition. [District NSR Rule], [Federally Enforceable Through Title V]
4. Tank gauge hatches, sampling ports, etc. shall be equipped with gas-tight (as defined in Rule 4623) covers which shall remain closed at all times except during gauging, sampling or attended maintenance operations. [District NSR Rule], [Federally Enforceable Through Title V]
5. Vapor control system shall consist of vapor piping from tanks S-1246-77, '78, '79, '80, and '81, fin-fan cooler, separator(s), compressor(s), and compressed vapor piping to inlet of TEOR vapor control system S-1246-268. [District NSR Rule], [Federally Enforceable Through Title V]
6. Vapor control system compressor shall activate before the pressure relief valve on any of the units served by the vapor control system vents. [District NSR Rule], [Federally Enforceable Through Title V]
7. The permittee shall keep accurate records of true vapor pressure, storage temperature and types of liquids stored and shall make such records available for District inspection upon request. [District NSR Rule], [Federally Enforceable Through Title V]
8. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
9. All piping, fittings, and valves shall be inspected annually by the facility operator in accordance with EPA Method 21, with the instrument calibrated with methane, to ensure compliance with the provisions of this permit. If any of the tank components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If no tank components are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired at the next process unit turnaround (the scheduled shutdown of a unit for maintenance and repair work). [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
10. The facility operator, upon detection of a leaking component, shall affix to that component a weatherproof readily visible tag bearing the date on which the leak is detected. The tag shall remain in place until the leaking component is repaired, reinspected and found to be in compliance with the requirements of this rule. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
11. An operator shall reinspect a component for leaks within thirty working days after the date on which the component is repaired. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
12. Emissions from components which have been tagged by the facility operator for repair within 15 calendar days or which have been repaired and are awaiting re-inspection shall not be in violation of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. Any component leak shall be repaired to a leak-free condition or vented to a vapor control device within fifteen (15) calendar days of detection. The APCO may grant a ten (10) calendar day extension provided the operator demonstrates that necessary and sufficient actions are being taken to correct the leak within this time period. Any vapor control device used to comply with this condition shall be determined the control efficiency by EPA Method 25 at least annually. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
14. If the leaking component is an essential part of a critical process unit which cannot be immediately shut down for repairs, the operator shall 1) Minimize the leak within 15 calendar days; and 2) If the leak which has been minimized still exceeds the concentration allowed by this permit, the essential component shall be repaired to eliminate the leak during the next process unit turnaround, but in no case later than one year from the date of the original leak detection. A critical process unit is any process unit which would result in the automatic shutdown of other process units if it were shut down. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

15. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date of leak detection, and method of detection; 3) Date and emission level of recheck after leak is repaired; 4) Identification and location of essential parts of critical process units found leaking that cannot be repaired until the next process unit turnaround; and 5) Method used to minimize the leak from essential parts of critical process units which cannot be repaired until the next process unit turnaround. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
16. The operator shall ensure that the vapor recovery system is functional and is operating as designed at all times. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
18. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
19. Control efficiency shall be determined by a comparison of controlled emissions to those emissions which would occur from a fixed or cone roof tank in the same product service without a vapor recovery system. Emissions shall be determined based on tank emission factors in EPA Publication AP-42, component counts for fugitive emissions sources, recognized emission factors for fugitive emission sources and the efficiency of any VOC destruction device. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
20. The efficiency of any VOC destruction device shall be measured by EPA Method 25, 25a, or 25b. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
21. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
22. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
23. As used in this permit, the term " source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-78-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

210,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10751, B & E LEASE PIPING TO VAPOR CONTROL SYSTEM LISTED ON PERMIT S-1246-77 - B&E LEASE

**PERMIT UNIT REQUIREMENTS**

1. Tank shall vent only to vapor control system listed in S-1246-77. [District NSR Rule], [Federally Enforceable Through Title V]
2. The vapor control system shall be capable of reducing VOC emissions by at least 95% by weight. [District NSR Rule], [Federally Enforceable Through Title V]
3. Tank seams, welds, joints, piping, valves, and fittings shall be inspected and maintained in gas-tight (as defined in Rule 4623) condition. [District NSR Rule], [Federally Enforceable Through Title V]
4. Tank gauge hatches, sampling ports, etc. shall be equipped with gas-tight (as defined in Rule 4623) covers which shall remain closed at all times except during gauging, sampling or attended maintenance operations. [District NSR Rule], [Federally Enforceable Through Title V]
5. The permittee shall keep accurate records of true vapor pressure, storage temperature and types of liquids stored and shall make such records available for District inspection upon request. [District NSR Rule], [Federally Enforceable Through Title V]
6. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
7. All piping, fittings, and valves shall be inspected annually by the facility operator in accordance with EPA Method 21, with the instrument calibrated with methane, to ensure compliance with the provisions of this permit. If any of the tank components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If no tank components are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired at the next process unit turnaround (the scheduled shutdown of a unit for maintenance and repair work). [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
8. The facility operator, upon detection of a leaking component, shall affix to that component a weatherproof readily visible tag bearing the date on which the leak is detected. The tag shall remain in place until the leaking component is repaired, reinspected and found to be in compliance with the requirements of this rule. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. An operator shall reinspect a component for leaks within thirty working days after the date on which the component is repaired. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
10. Emissions from components which have been tagged by the facility operator for repair within 15 calendar days or which have been repaired and are awaiting re-inspection shall not be in violation of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
11. Any component leak shall be repaired to a leak-free condition or vented to a vapor control device within fifteen (15) calendar days of detection. The APCO may grant a ten (10) calendar day extension provided the operator demonstrates that necessary and sufficient actions are being taken to correct the leak within this time period. Any vapor control device used to comply with this condition shall be determined the control efficiency by EPA Method 25 at least annually. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
12. If the leaking component is an essential part of a critical process unit which cannot be immediately shut down for repairs, the operator shall 1) Minimize the leak within 15 calendar days; and 2) If the leak which has been minimized still exceeds the concentration allowed by this permit, the essential component shall be repaired to eliminate the leak during the next process unit turnaround, but in no case later than one year from the date of the original leak detection. A critical process unit is any process unit which would result in the automatic shutdown of other process units if it were shut down. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date of leak detection, and method of detection; 3) Date and emission level of recheck after leak is repaired; 4) Identification and location of essential parts of critical process units found leaking that cannot be repaired until the next process unit turnaround; and 5) Method used to minimize the leak from essential parts of critical process units which cannot be repaired until the next process unit turnaround. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
14. The operator shall ensure that the vapor recovery system is functional and is operating as designed at all times. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]



## Initial TV Permit

15. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
16. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. Control efficiency shall be determined by a comparison of controlled emissions to those emissions which would occur from a fixed or cone roof tank in the same product service without a vapor recovery system. Emissions shall be determined based on tank emission factors in EPA Publication AP-42, component counts for fugitive emissions sources, recognized emission factors for fugitive emission sources and the efficiency of any VOC destruction device. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
18. The efficiency of any VOC destruction device shall be measured by EPA Method 25, 25a, or 25b. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
19. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
20. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
21. As used in this permit, the term " source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-79-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

210,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10752, B & E LEASE PIPING TO VAPOR CONTROL SYSTEM LISTED ON PERMIT S-1246-77 - B&E LEASE

## **PERMIT UNIT REQUIREMENTS**

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1. Tank shall vent only to vapor control system listed in S-1246-77. [District NSR Rule], [Federally Enforceable Through Title V]
  2. The vapor control system shall be capable of reducing VOC emissions by at least 95% by weight. [District NSR Rule], [Federally Enforceable Through Title V]
  3. Tank seams, welds, joints, piping, valves, and fittings shall be inspected and maintained in gas-tight (as defined in Rule 4623) condition. [District NSR Rule], [Federally Enforceable Through Title V]
  4. Tank gauge hatches, sampling ports, etc. shall be equipped with gas-tight (as defined in Rule 4623) covers which shall remain closed at all times except during gauging, sampling or attended maintenance operations. [District NSR Rule], [Federally Enforceable Through Title V]
  5. The permittee shall keep accurate records of true vapor pressure, storage temperature and types of liquids stored and shall make such records available for District inspection upon request. [District NSR Rule], [Federally Enforceable Through Title V]
  6. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
  7. All piping, fittings, and valves shall be inspected annually by the facility operator in accordance with EPA Method 21, with the instrument calibrated with methane, to ensure compliance with the provisions of this permit. If any of the tank components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If no tank components are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired at the next process unit turnaround (the scheduled shutdown of a unit for maintenance and repair work). [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  8. The facility operator, upon detection of a leaking component, shall affix to that component a weatherproof readily visible tag bearing the date on which the leak is detected. The tag shall remain in place until the leaking component is repaired, reinspected and found to be in compliance with the requirements of this rule. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  9. An operator shall reinspect a component for leaks within thirty working days after the date on which the component is repaired. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  10. Emissions from components which have been tagged by the facility operator for repair within 15 calendar days or which have been repaired and are awaiting re-inspection shall not be in violation of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  11. Any component leak shall be repaired to a leak-free condition or vented to a vapor control device within fifteen (15) calendar days of detection. The APCO may grant a ten (10) calendar day extension provided the operator demonstrates that necessary and sufficient actions are being taken to correct the leak within this time period. Any vapor control device used to comply with this condition shall be determined the control efficiency by EPA Method 25 at least annually. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  12. If the leaking component is an essential part of a critical process unit which cannot be immediately shut down for repairs, the operator shall 1) Minimize the leak within 15 calendar days; and 2) If the leak which has been minimized still exceeds the concentration allowed by this permit, the essential component shall be repaired to eliminate the leak during the next process unit turnaround, but in no case later than one year from the date of the original leak detection. A critical process unit is any process unit which would result in the automatic shutdown of other process units if it were shut down. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  13. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date of leak detection, and method of detection; 3) Date and emission level of recheck after leak is repaired; 4) Identification and location of essential parts of critical process units found leaking that cannot be repaired until the next process unit turnaround; and 5) Method used to minimize the leak from essential parts of critical process units which cannot be repaired until the next process unit turnaround. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  14. The operator shall ensure that the vapor recovery system is functional and is operating as designed at all times. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

15. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
16. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. Control efficiency shall be determined by a comparison of controlled emissions to those emissions which would occur from a fixed or cone roof tank in the same product service without a vapor recovery system. Emissions shall be determined based on tank emission factors in EPA Publication AP-42, component counts for fugitive emissions sources, recognized emission factors for fugitive emission sources and the efficiency of any VOC destruction device. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
18. The efficiency of any VOC destruction device shall be measured by EPA Method 25, 25a, or 25b. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
19. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
20. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
21. As used in this permit, the term " source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-80-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

210,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #10753, B & E LEASE PIPING TO VAPOR CONTROL SYSTEM LISTED ON PERMIT S-1246-77 - B&E LEASE

**PERMIT UNIT REQUIREMENTS**

1. Tank shall vent only to vapor control system listed in S-1246-77. [District NSR Rule], [Federally Enforceable Through Title V]
2. The vapor control system shall be capable of reducing VOC emissions by at least 95% by weight. [District NSR Rule], [Federally Enforceable Through Title V]
3. Tank seams, welds, joints, piping, valves, and fittings shall be inspected and maintained in gas-tight (as defined in Rule 4623) condition. [District NSR Rule], [Federally Enforceable Through Title V]
4. Tank gauge hatches, sampling ports, etc. shall be equipped with gas-tight (as defined in Rule 4623) covers which shall remain closed at all times except during gauging, sampling or attended maintenance operations. [District NSR Rule], [Federally Enforceable Through Title V]
5. The permittee shall keep accurate records of true vapor pressure, storage temperature and types of liquids stored and shall make such records available for District inspection upon request. [District NSR Rule], [Federally Enforceable Through Title V]
6. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
7. All piping, fittings, and valves shall be inspected annually by the facility operator in accordance with EPA Method 21, with the instrument calibrated with methane, to ensure compliance with the provisions of this permit. If any of the tank components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If no tank components are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired at the next process unit turnaround (the scheduled shutdown of a unit for maintenance and repair work). [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
8. The facility operator, upon detection of a leaking component, shall affix to that component a weatherproof readily visible tag bearing the date on which the leak is detected. The tag shall remain in place until the leaking component is repaired, reinspected and found to be in compliance with the requirements of this rule. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. An operator shall reinspect a component for leaks within thirty working days after the date on which the component is repaired. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
10. Emissions from components which have been tagged by the facility operator for repair within 15 calendar days or which have been repaired and are awaiting re-inspection shall not be in violation of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
11. Any component leak shall be repaired to a leak-free condition or vented to a vapor control device within fifteen (15) calendar days of detection. The APCO may grant a ten (10) calendar day extension provided the operator demonstrates that necessary and sufficient actions are being taken to correct the leak within this time period. Any vapor control device used to comply with this condition shall be determined the control efficiency by EPA Method 25 at least annually. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
12. If the leaking component is an essential part of a critical process unit which cannot be immediately shut down for repairs, the operator shall 1) Minimize the leak within 15 calendar days; and 2) If the leak which has been minimized still exceeds the concentration allowed by this permit, the essential component shall be repaired to eliminate the leak during the next process unit turnaround, but in no case later than one year from the date of the original leak detection. A critical process unit is any process unit which would result in the automatic shutdown of other process units if it were shut down. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date of leak detection, and method of detection; 3) Date and emission level of recheck after leak is repaired; 4) Identification and location of essential parts of critical process units found leaking that cannot be repaired until the next process unit turnaround; and 5) Method used to minimize the leak from essential parts of critical process units which cannot be repaired until the next process unit turnaround. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
14. The operator shall ensure that the vapor recovery system is functional and is operating as designed at all times. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

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15. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
16. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. Control efficiency shall be determined by a comparison of controlled emissions to those emissions which would occur from a fixed or cone roof tank in the same product service without a vapor recovery system. Emissions shall be determined based on tank emission factors in EPA Publication AP-42, component counts for fugitive emissions sources, recognized emission factors for fugitive emission sources and the efficiency of any VOC destruction device. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
18. The efficiency of any VOC destruction device shall be measured by EPA Method 25, 25a, or 25b. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
19. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
20. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
21. As used in this permit, the term " source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-81-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

21,000 GALLON FIXED ROOF PETROLEUM SLOP OIL TANK, B & E LEASE

## **PERMIT UNIT REQUIREMENTS**

1. Tank shall vent only to vapor control system listed in S-1246-77. [District NSR Rule], [Federally Enforceable Through Title V]
2. The vapor control system shall be capable of reducing VOC emissions by at least 95% by weight. [District NSR Rule], [Federally Enforceable Through Title V]
3. Tank seams, welds, joints, piping, valves, and fittings shall be inspected and maintained in gas-tight (as defined in Rule 4623) condition. [District NSR Rule], [Federally Enforceable Through Title V]
4. Tank gauge hatches, sampling ports, etc. shall be equipped with gas-tight (as defined in Rule 4623) covers which shall remain closed at all times except during gauging, sampling or attended maintenance operations. [District NSR Rule], [Federally Enforceable Through Title V]
5. The permittee shall keep accurate records of true vapor pressure, storage temperature and types of liquids stored and shall make such records available for District inspection upon request. [District NSR Rule], [Federally Enforceable Through Title V]
6. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
7. All piping, fittings, and valves shall be inspected annually by the facility operator in accordance with EPA Method 21, with the instrument calibrated with methane, to ensure compliance with the provisions of this permit. If any of the tank components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If no tank components are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired at the next process unit turnaround (the scheduled shutdown of a unit for maintenance and repair work). [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
8. The facility operator, upon detection of a leaking component, shall affix to that component a weatherproof readily visible tag bearing the date on which the leak is detected. The tag shall remain in place until the leaking component is repaired, reinspected and found to be in compliance with the requirements of this rule. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. An operator shall reinspect a component for leaks within thirty working days after the date on which the component is repaired. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
10. Emissions from components which have been tagged by the facility operator for repair within 15 calendar days or which have been repaired and are awaiting re-inspection shall not be in violation of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
11. Any component leak shall be repaired to a leak-free condition or vented to a vapor control device within fifteen (15) calendar days of detection. The APCO may grant a ten (10) calendar day extension provided the operator demonstrates that necessary and sufficient actions are being taken to correct the leak within this time period. Any vapor control device used to comply with this condition shall be determined the control efficiency by EPA Method 25 at least annually. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
12. If the leaking component is an essential part of a critical process unit which cannot be immediately shut down for repairs, the operator shall 1) Minimize the leak within 15 calendar days; and 2) If the leak which has been minimized still exceeds the concentration allowed by this permit, the essential component shall be repaired to eliminate the leak during the next process unit turnaround, but in no case later than one year from the date of the original leak detection. A critical process unit is any process unit which would result in the automatic shutdown of other process units if it were shut down. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date of leak detection, and method of detection; 3) Date and emission level of recheck after leak is repaired; 4) Identification and location of essential parts of critical process units found leaking that cannot be repaired until the next process unit turnaround; and 5) Method used to minimize the leak from essential parts of critical process units which cannot be repaired until the next process unit turnaround. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
14. The operator shall ensure that the vapor recovery system is functional and is operating as designed at all times. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

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15. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
16. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. Control efficiency shall be determined by a comparison of controlled emissions to those emissions which would occur from a fixed or cone roof tank in the same product service without a vapor recovery system. Emissions shall be determined based on tank emission factors in EPA Publication AP-42, component counts for fugitive emissions sources, recognized emission factors for fugitive emission sources and the efficiency of any VOC destruction device. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
18. The efficiency of any VOC destruction device shall be measured by EPA Method 25, 25a, or 25b. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
19. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
20. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
21. As used in this permit, the term " source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-82-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

8,400 GALLON FIXED ROOF PETROLEUM STORAGE TANK, B & E LEASE

## **PERMIT UNIT REQUIREMENTS**

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080], [Federally Enforceable Through Title V]
2. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
3. The owner or operator shall not store, hold, or place any gasoline into this tank unless the tank is equipped with a pressure relief valve set within 10 percent of the maximum allowable working pressure or a vapor control system capable of reducing VOC emissions by at least 95%. [District Rule 4623, 5.4], [Federally Enforceable Through Title V]



**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-83-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

8,820 GALLON FIXED ROOF PETROLEUM STORAGE TANK, B & E LEASE

## **PERMIT UNIT REQUIREMENTS**

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080], [Federally Enforceable Through Title V]
2. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
3. The owner or operator shall not store, hold, or place any gasoline into this tank unless the tank is equipped with a pressure relief valve set within 10 percent of the maximum allowable working pressure or a vapor control system capable of reducing VOC emissions by at least 95%. [District Rule 4623, 5.4], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-84-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

21,000 GALLON FIXED ROOF PETROLEUM SLOP OIL TANK, B & E LEASE

## **PERMIT UNIT REQUIREMENTS**

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-85-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

21,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #502

## **PERMIT UNIT REQUIREMENTS**

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-86-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

21,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #501

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-88-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #7639, BBO LEASE

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-90-0

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

63,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK (FUEL), BBO LEASE

## PERMIT UNIT REQUIREMENTS

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1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Sulfur compound emissions shall not exceed 2000 ppmv as SO<sub>2</sub>. [District Rule 4801]
3. All permits for facilities #S-1246 and #S-2265 are included in Berry Petroleum Company's Heavy Oil Western stationary source. [ ]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-91-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

8,820 GALLON FIXED ROOF PETROLEUM STORAGE TANK (FUEL), BBO LEASE

## **PERMIT UNIT REQUIREMENTS**

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080], [Federally Enforceable Through Title V]
2. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
3. The owner or operator shall not store, hold, or place any gasoline into this tank unless the tank is equipped with a pressure relief valve set within 10 percent of the maximum allowable working pressure or a vapor control system capable of reducing VOC emissions by at least 95%. [District Rule 4623, 5.4], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-92-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

84,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #9647, HILLSIDE LEASE

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]



**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-93-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

67,200 GALLON (1600 BBL) FIXED ROOF CRUDE OIL STOCK TANK #10367, HILLSIDE LEASE.

## **PERMIT UNIT REQUIREMENTS**

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-94-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

10,080 GALLON FIXED ROOF PETROLEUM STORAGE TANK (FUEL TANK), HILLSIDE LEASE

## **PERMIT UNIT REQUIREMENTS**

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080], [Federally Enforceable Through Title V]
2. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
3. The owner or operator shall not store, hold, or place any gasoline into this tank unless the tank is equipped with a pressure relief valve set within 10 percent of the maximum allowable working pressure or a vapor control system capable of reducing VOC emissions by at least 95%. [District Rule 4623, 5.4], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-95-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

21,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #13470, ETHEL D LEASE

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-96-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

21,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #13477, ETHEL D LEASE

## **PERMIT UNIT REQUIREMENTS**

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-100-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

21,000 GALLON FIXED ROOF PETROLEUM WASH TANK, ANDERSON LEASE

## **PERMIT UNIT REQUIREMENTS**

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-101-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

21,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #133289, ANDERSON LEASE

## **PERMIT UNIT REQUIREMENTS**

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-104-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

8,400 GALLON TEST TANK #4016188, FAIRFIELD A-2 TANK FARM

## **PERMIT UNIT REQUIREMENTS**

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080], [Federally Enforceable Through Title V]
2. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
3. The owner or operator shall not store, hold, or place any gasoline into this tank unless the tank is equipped with a pressure relief valve set within 10 percent of the maximum allowable working pressure or a vapor control system capable of reducing VOC emissions by at least 95%. [District Rule 4623, 5.4], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-105-4

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

TEOR SYSTEM, INCLUDING 42 STEAM DRIVE AND 8 CYCLIC WELLS, GAS LIQUID SEPARATORS, AIR-COOLED HEAT EXCHANGER, 25 BBL CONDENSATE TANK, COMPRESSOR, & VAPOR PIPING TO FUEL GAS SYSTEM

## **PERMIT UNIT REQUIREMENTS**

1. The crude oil production from wells associated with this permit unit shall not lie within 1000 feet of an air injection well used for in-situ combustion. [District Rule 4407, 2.0, 3.4, and 3.5], [Federally Enforceable Through Title V]
2. The uncontrolled VOC emissions from any well vent shall be reduced by at least 99 percent by weight or, if several steam-enhanced crude oil production well vents are connected to a vapor collection and control system, total uncontrolled VOC emissions shall be reduced by at least 99 percent. [District Rule 4401, 5.1 and 5.2], [Federally Enforceable Through Title V]
3. Operator shall maintain all components of a well vent vapor collection and control system in good repair. Components of the well vent vapor collection and control system shall include all piping, valves, fittings, pumps, compressors, tanks, etc. used to collect, control, store, or dispose of VOC condensate or non-condensable VOCs and which is prior to any blending of VOC condensate with crude oil or blending of non-condensable VOCs with gases to be used as a fuel. [District Rule 4401, 5.3 and 5.3.2], [Federally Enforceable Through Title V]
4. During the time any steam-enhanced crude oil production well is undergoing service or repair while the well is not producing, it shall be exempt from the emission control requirements of District Rule 4401, 5.0 (as amended January 15, 1998). [District Rule 4401, 4.1], [Federally Enforceable Through Title V]
5. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (as amended December 16, 1993). [District Rule 1081 and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
6. The operator shall maintain monitoring records of the date and well identification where steam injection or well stimulation occurs. [District Rule 4401, 6.1], [Federally Enforceable Through Title V]
7. Operator shall affix a readily visible tag bearing the date on which a leak is detected. The tag shall remain in place until the leaking component is repaired. [District Rule 4401, 5.3.1], [Federally Enforceable Through Title V]
8. Operator shall repair each leak within 15 days of detection. The APCO may grant a 10 day extension if the operator demonstrates that the necessary and sufficient actions have and are being taken to correct the leak. [District Rule 4401, 5.3.1], [Federally Enforceable Through Title V]
9. Annual control efficiency compliance tests shall be performed on all vapor collection and control systems used to control emissions from steam-enhanced crude oil production wells. Testing shall be performed by source testers certified by the California Air Resource Board (CARB) during June, July, August or September of each year if the system's control efficiency is dependent upon ambient air temperature. The APCO may waive the requirements of this condition if the vapor control system does not exhaust to atmosphere or if all uncondensed VOC emissions collected by a vapor collection and control system are incinerated in fuel burning equipment, an internal combustion engine, or in a smokeless open flare, and the source's Operating Permit contains adequate periodic monitoring to ensure the source meets 99% control efficiency. [District Rule 4401, 5.1, 5.2 and 6.2.1], [Federally Enforceable Through Title V]
10. The control efficiency of systems designed to control VOC emissions from steam enhanced crude oil production well shall be determined by mass balance based on most stringent of a source test, USEPA approved emission factors, or Air Pollution (AP)-42 emission factors for components and number of components; and the efficiency of destruction devices determined by USEPA Method 25, 25a, or 25b as applicable. [District Rule 4401, 6.3.1], [Federally Enforceable Through Title V]
11. VOC content shall be determined using the latest version of ASTM Method E168, E169, or E260 as applicable. Halogenated exempt compounds shall be determined by CARB Method 432. [District Rule 4401, 6.4.2], [Federally Enforceable Through Title V]
12. The source shall perform leak inspections at least annually, using a portable hydrocarbon detection instrument in accordance with USEPA Method 21. [District Rules 2520, 9.4.2 and 4401, 6.4.3], [Federally Enforceable Through Title V]
13. A listing of all steam enhanced wells connected to this system shall be submitted to the District at least 60 days prior to the permit anniversary date. [District NSR Rule], [Federally Enforceable Through Title V]
14. Leaks shall be inspected and repaired as specified in Rule 4401. [District Rule 4401], [Federally Enforceable Through Title V]



## Initial TV Permit

15. There shall be no more than 6 leaks from the vapor collection and control system, including condensate handling, at any one time. [District Rule 4401, 5.3], [Federally Enforceable Through Title V]
16. If VOC vapors combustion source is inoperative, well vent gases shall not be vented to atmosphere. [District Rule 4401], [Federally Enforceable Through Title V]
17. Volatile Organic Compound (VOC) emission rate shall not exceed 0.832 lb/well/day controlled for steam drive wells, and shall not exceed 0.13 lb/well/day controlled for cyclic wells. [District NSR Rule], [Federally Enforceable Through Title V]
18. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
19. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4401 (Amended January 15, 1998), formerly District Rule 465.1, excluding sections 5.1 and 5.2 for control systems which have been waived from complying with the requirement of section 6.2.1. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
20. The requirements of SJVUAPCD Rule 4407 (Adopted May 19, 1994) do not apply to this permit unit. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
21. For cyclic wells located on properties with less than 10 cyclic wells and owned by a company, the uncontrolled VOC emissions from any well vent or system of well vents connected to a single vapor collection and control device shall be reduced by at least 50 percent. Properties shall include contiguous and adjacent oil production properties owned by or under control of the company. [District Rule 4401, 5.4], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-106-5

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

T.E.O.R. FOR 69 WELLS, INCLUDING: 3-VERTICAL GAS/LIQUID SEPARATORS, 2 AIR-COOLED HEAT EXCHANGERS, 1-25 BBL AND 1-135 BBL CONDENSATE HOLDING TANKS, 2-7.5 HP AND 1-10 HP COMPRESSORS, VAPOR AND CONDENSATE PIPING TO HEAVY OIL TANK BATTERY. FAIRFIELD A-1

## **PERMIT UNIT REQUIREMENTS**

1. The crude oil production from wells associated with this permit unit shall not lie within 1000 feet of an air injection well used for in-situ combustion. [District Rule 4407, 2.0, 3.4, and 3.5], [Federally Enforceable Through Title V]
2. The uncontrolled VOC emissions from any well vent shall be reduced by at least 99 percent by weight or, if several steam-enhanced crude oil production well vents are connected to a vapor collection and control system, total uncontrolled VOC emissions shall be reduced by at least 99 percent. [District Rule 4401, 5.1 and 5.2], [Federally Enforceable Through Title V]
3. Operator shall maintain all components of a well vent vapor collection and control system in good repair. Components of the well vent vapor collection and control system shall include all piping, valves, fittings, pumps, compressors, tanks, etc. used to collect, control, store, or dispose of VOC condensate or non-condensable VOCs and which is prior to any blending of VOC condensate with crude oil or blending of non-condensable VOCs with gases to be used as a fuel. [District Rule 4401, 5.3 and 5.3.2], [Federally Enforceable Through Title V]
4. During the time any steam-enhanced crude oil production well is undergoing service or repair while the well is not producing, it shall be exempt from the emission control requirements of District Rule 4401, 5.0 (as amended January 15, 1998). [District Rule 4401, 4.1], [Federally Enforceable Through Title V]
5. All required source testing shall conform to the compliance testing procedures described in District Rule 1081(as amended December 16, 1993). [District Rule 1081 and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
6. The operator shall maintain monitoring records of the date and well identification where steam injection or well stimulation occurs. [District Rule 4401, 6.1], [Federally Enforceable Through Title V]
7. Operator shall affix a readily visible tag bearing the date on which a leak is detected. The tag shall remain in place until the leaking component is repaired. [District Rule 4401, 5.3.1], [Federally Enforceable Through Title V]
8. Operator shall repair each leak within 15 days of detection. The APCO may grant a 10 day extension if the operator demonstrates that the necessary and sufficient actions have and are being taken to correct the leak. [District Rule 4401, 5.3.1], [Federally Enforceable Through Title V]
9. Annual control efficiency compliance tests shall be performed on all vapor collection and control systems used to control emissions from steam-enhanced crude oil production wells. Testing shall be performed by source testers certified by the California Air Resource Board (CARB) during June, July, August or September of each year if the system's control efficiency is dependent upon ambient air temperature. The APCO may waive the requirements of this condition if the vapor control system does not exhaust to atmosphere or if all uncondensed VOC emissions collected by a vapor collection and control system are incinerated in fuel burning equipment, an internal combustion engine, or in a smokeless open flare, and the source's Operating Permit contains adequate periodic monitoring to ensure the source meets 99% control efficiency. [District Rule 4401, 5.1, 5.2 and 6.2.1], [Federally Enforceable Through Title V]
10. The control efficiency of systems designed to control VOC emissions from steam enhanced crude oil production well shall be determined by mass balance based on most stringent of a source test, USEPA approved emission factors for components and number of components; and the efficiency of destruction devices determined by USEPA Method 25, 25a, or 25b as applicable. [District Rule 4401, 6.4.1], [Federally Enforceable Through Title V]
11. VOC content shall be determined using the latest version of ASTM Method E168, E169, or E260 as applicable. Halogenated exempt compounds shall be determined by CARB Method 432. [District Rule 4401, 6.4.2], [Federally Enforceable Through Title V]
12. The source shall perform leak inspections at least annually, using a portable hydrocarbon detection instrument in accordance with USEPA Method 21. [District Rules 2520, 9.4.2 and 4401, 6.4.3], [Federally Enforceable Through Title V]
13. A listing of all steam enhanced wells connected to this system shall be submitted to the District at least 60 days prior to the permit anniversary date. [District NSR Rule], [Federally Enforceable Through Title V]
14. There shall be no more than 8 leaks from the vapor collection and control system, including condensate handling, at any one time. [District Rule 4401, 5.3], [Federally Enforceable Through Title V]

## Initial TV Permit

15. If VOC vapors combustion source is inoperative, well vent gases shall not be vented to atmosphere. [District Rule 4401], [Federally Enforceable Through Title V]
16. Casing gas shall be incinerated in permit exempt heater treater. [District NSR Rule], [Federally Enforceable Through Title V]
17. Sulfur content of gas incinerated in heater treater shall not exceed 0.75 gr/100 scf. [District NSR Rule], [Federally Enforceable Through Title V]
18. Compliance with sulfur limit shall be verified by TEOR gas sulfur sample no less than annually. [District NSR Rule], [Federally Enforceable Through Title V]
19. Compliance demonstration (source testing) shall be District witnessed or authorized; sample collection shall be by ARB certified testing laboratory. [District Rule 1081], [Federally Enforceable Through Title V]
20. Testing to measure TEOR gas sulfur content shall be conducted using ASTM D3246 oxidation combustion microcoubmetric or double GC for H<sub>2</sub>S and mercaptans. [District Rule 1081], [Federally Enforceable Through Title V]
21. VOC emissions shall not exceed 83.59 lb/day. [District NSR Rule], [Federally Enforceable Through Title V]
22. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
23. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4401 (Amended January 15, 1998), formerly District Rule 465.1, excluding sections 5.1 and 5.2 for control systems which have been waived from complying with the requirement of section 6.2.1. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
24. The requirements of SJVUAPCD Rule 4407 (Adopted May 19, 1994) do not apply to this permit unit. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-107-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

84,588 GALLON STANDBY TANK ID# 2014, BELGIAN LEASE

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-109-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

21,000 GALLON SHIP TANK #4016193, ALFORD ELLIOT LEASE

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-110-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

42,000 GALLON STOCK TANK ID#1576, ALFORD ELLIOT LEASE

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-111-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

27.0 MMBTU/HR STRUTHERS GAS FIRED STEAM GENERATOR #MS-1 (FAIRFIELD A-1 LEASE) \*\* PTO  
SURRENDERED FOR ERC'S S-0884-1 THROUGH -5 (PROJECT 980701), JRS, 1/25/99 \*\*

## **PERMIT UNIT REQUIREMENTS**

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1. If continuous operation oxygen analyzer/controller is utilized, excess O<sub>2</sub> shall be maintained between 0.5 and 3.0%. If not utilized, excess air shall be maintained at no less than 15%. [District Rule 4405]
  2. Generator/boiler authorized to fire on natural gas, LPG or TEOR gas and shall have no provisions for firing on fuel oil. [District Rule 2201]
  3. Fuel usage shall be less than 30 billion BTU per calendar year. [District Rule 2201, 4305]
  4. Permittee shall either tune the unit at least once each calendar year in which it operates by a technician that is qualified in accordance with the procedure described in District Rule 4304, or operate the unit in a manner that maintains exhaust O<sub>2</sub> at less than or equal to 3.00% by volume on a dry basis. [District Rule 4305]
  5. Permittee shall maintain accurate records of annual fuel usage, fuel heat content, and name and company of technician (if any) tuning the unit for a minimum of two years and make such records readily available for District inspection upon request. [District Rule 2201, 4305]
  6. All permits for facilities #S-1246 and #S-2265 are included in Berry Petroleum Company's Heavy Oil Western stationary source. [District Rule 2201]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-112-3

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

30.0 MMBTU/HR STRUTHERS STEAM GENERATOR #MS-3 (FAIRFIELD A-1 LEASE)

## PERMIT UNIT REQUIREMENTS

1. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Last Amended December 16, 1993). [District Rule 1081 and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
2. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. Particulate matter emissions shall not exceed 0.1 grain/dscf, calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
4. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072-80, D 3031-81, D 4084-82, D 3246-81 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. If fuel analysis is used to demonstrate compliance with conditions of this permit, the fuel higher heating value for each fuel shall be certified by a third party fuel supplier or determined by: ASTM D 240-87 or D 2382-88 for liquid hydrocarbon fuels; ASTM D 1826-88 or D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels. [District Rule 2520, 9.4.2; 4305, 6.2.1; and 4351, 6.2.1], [Federally Enforceable Through Title V]
8. Sulfur emissions shall not exceed 0.11 lb of sulfur per million BTU of heat input, averaged over 3 - one hour periods. Compliance with this requirement may be demonstrated by firing the unit only on PUC or FERC regulated natural gas; multiplying the reported sulfur content of each fuel in lb/MMBtu by the maximum heat input rating of the unit; or by a combination of source testing for sulfur compounds and fuel analysis. Compliance may be demonstrated for this unit individually, or by showing that the total emissions of sulfur compounds from all steam generators located at the stationary source with ATC or PTO issued prior to September 12, 1979 does not exceed the emissions that would result if each unit was operating in compliance with the specified limit. [Kern County Rule 424, Kern County Rules 407, District Rule 4801, District Rule 4301, and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. [District Rules 4301, 5.2.2, 5.3, and 5.5 and 2520, 9.4.2], [Federally Enforceable Through Title V]
10. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
11. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
12. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]



## Initial TV Permit

13. The requirements of SJVUAPCD Rule 4351(Amended October 19, 1995) do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
14. If continuous operation oxygen analyzer/controller is utilized, excess O<sub>2</sub> shall be maintained between 0.5 and 3.0%. If not utilized, excess air shall be maintained at no less than 15%. [District NSR Rule], [Federally Enforceable Through Title V]
15. Generator/boiler shall be fired exclusively on natural gas or LPG and shall have no provisions for firing on fuel oil. [District NSR Rule], [Federally Enforceable Through Title V]
16. Fuel usage shall be less than 30 billion BTU per calendar year. [District NSR Rule and District Rule 4305], [Federally Enforceable Through Title V]
17. Permittee shall either tune the unit at least once each calendar year in which it operates by a technician that is qualified in accordance with the procedure described in District Rule 4304, or operate the unit in a manner that maintains exhaust O<sub>2</sub> at less than or equal to 3.00% by volume on a dry basis. [District Rule 4305]
18. Permittee shall maintain accurate records of annual fuel usage, fuel heat content, and name and company of technician (if any) tuning the unit and make such records readily available for District inspection upon request. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-113-0

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

30.0 MMBTU/HR STRUTHERS GAS FIRED STEAM GENERATOR #MS-4 (SURRENDERED FOR ERC ON 2/10/98 - SPL)

## PERMIT UNIT REQUIREMENTS

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1. If continuous operation oxygen analyzer/controller is utilized, excess O<sub>2</sub> shall be maintained between 0.5 and 3.0%. If not utilized, excess air shall be maintained at no less than 15%. [ ]
2. Generator/boiler authorized to fire on natural gas, LPG or TEOR gas and shall have no provisions for firing on fuel oil. [ ]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-114-0

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

30.0 MMBTU/HR STRUTHERS STEAM GENERATOR #MS-5 \*\*\*CANCELLED PER APPLICANT REQUEST, 7/1/97, GAU\*\*\*

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions from any combustion source shall not exceed 0.1 grains/dscf (calculated to 12% carbon dioxide). [District Rule 4301]
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
3. Sulfur compound emissions shall not exceed 2000 ppmv as SO<sub>2</sub>. [District Rule 4801]
4. If continuous operation oxygen analyzer/controller is utilized, excess O<sub>2</sub> shall be maintained between 0.5 and 3.0%. If not utilized, excess air shall be maintained at no less than 15%. [ ]
5. Generator/boiler shall be fired exclusively on natural gas or LPG and shall have no provisions for firing on fuel oil. [ ]
6. All permits for facilities #S-1246 and #S-2265 are included in Berry Petroleum Company's Heavy Oil Western stationary source. [ ]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-115-0

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

25.2 MMBTU/HR STRUTHERS STEAM GENERATOR #MS-12

## **PERMIT UNIT REQUIREMENTS**

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1. Particulate matter emissions from any combustion source shall not exceed 0.1 grains/dscf (calculated to 12% carbon dioxide). [District Rule 4301]
  2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
  3. Sulfur compound emissions shall not exceed 2000 ppmv as SO<sub>2</sub>. [District Rule 4801]
  4. If continuous operation oxygen analyzer/controller is utilized, excess O<sub>2</sub> shall be maintained between 0.5 and 3.0%. If not utilized, excess air shall be maintained at no less than 15%. [ ]
  5. Generator/boiler shall be fired exclusively on natural gas or LPG and shall have no provisions for firing on fuel oil. [ ]
  6. All permits for facilities #S-1246 and #S-2265 are included in Berry Petroleum Company's Heavy Oil Western stationary source. [ ]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-116-3

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

25.0 MMBTU/HR STRUTHERS PORTABLE STEAM GENERATOR (BELGIAN LEASE)

## PERMIT UNIT REQUIREMENTS

1. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Last Amended December 16, 1993). [District Rule 1081 and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
2. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. Particulate matter emissions shall not exceed 0.1 grain/dscf, calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
4. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072-80, D 3031-81, D 4084-82, D 3246-81 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. If fuel analysis is used to demonstrate compliance with conditions of this permit, the fuel higher heating value for each fuel shall be certified by a third party fuel supplier or determined by ASTM D 1826-88 or D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels. [District Rule 2520, 9.4.2; 4305, 6.2.1; and 4351, 6.2.1], [Federally Enforceable Through Title V]
8. Sulfur emissions shall not exceed 0.11 lb of sulfur per million BTU of heat input, averaged over 3 - one hour periods. Compliance with this requirement may be demonstrated by firing the unit only on PUC or FERC regulated natural gas; multiplying the reported sulfur content of each fuel in lb/MMBtu by the maximum heat input rating of the unit; or by a combination of source testing for sulfur compounds and fuel analysis. Compliance may be demonstrated for this unit individually, or by showing that the total emissions of sulfur compounds from all steam generators located at the stationary source with ATC or PTO issued prior to September 12, 1979 does not exceed the emissions that would result if each unit was operating in compliance with the specified limit. [Kern County Rule 424, Kern County Rule 407, District Rule 4301, 5.2.1, District Rule 4801, and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. [District Rules 4301, 5.2.2, 5.3, and 5.5 and 2520, 9.4.2], [Federally Enforceable Through Title V]
10. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
11. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
12. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

## Initial TV Permit

13. The requirements of SJVUAPCD Rule 4351(Amended October 19, 1995) do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
14. If continuous operation oxygen analyzer/controller is utilized, excess O<sub>2</sub> shall be maintained between 0.5 and 3.0%. If not utilized, excess air shall be maintained at no less than 15%. [District NSR Rule], [Federally Enforceable Through Title V]
15. Generator/boiler shall be fired exclusively on natural gas or LPG and shall have no provisions for firing on fuel oil. [District NSR Rule], [Federally Enforceable Through Title V]
16. Fuel usage shall be less than 30 billion BTU per calendar year. [District NSR Rule and District Rule 4305], [Federally Enforceable Through Title V]
17. Permittee shall either tune the unit at least once each calendar year in which it operates by a technician that is qualified in accordance with the procedure described in District Rule 4304, or operate the unit in a manner that maintains exhaust O<sub>2</sub> at less than or equal to 3.00% by volume on a dry basis. [District Rule 4305]
18. Permittee shall maintain accurate records of annual fuel usage, fuel heat content, and name and company of technician (if any) tuning the unit and make such records readily available for District inspection upon request. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-117-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

25.2 MMBTU/HR NATURAL GAS FIRED STEAM GENERATOR (NATIONAL #3), WITH OF LESS THAN 30 BILLION BTU/HR

## PERMIT UNIT REQUIREMENTS

1. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Last Amended December 16, 1993). [District Rule 1081 and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
2. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. Particulate matter emissions shall not exceed 0.1 grain/dscf, calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
4. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072-80, D 3031-81, D 4084-82, D 3246-81 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. If fuel analysis is used to demonstrate compliance with conditions of this permit, the fuel higher heating value for each fuel shall be certified by a third party fuel supplier or determined by ASTM D 1826-88 or D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels. [District Rule 2520, 9.4.2; 4305, 6.2.1; and 4351, 6.2.1], [Federally Enforceable Through Title V]
8. Sulfur emissions shall not exceed 0.11 lb of sulfur per million BTU of heat input, averaged over 3 - one hour periods. Compliance with this requirement may be demonstrated by firing the unit only on PUC or FERC regulated natural gas; multiplying the reported sulfur content of each fuel in lb/MMBtu by the maximum heat input rating of the unit; or by a combination of source testing for sulfur compounds and fuel analysis. Compliance may be demonstrated for this unit individually, or by showing that the total emissions of sulfur compounds from all steam generators located at the stationary source with ATC or PTO issued prior to September 12, 1979 does not exceed the emissions that would result if each unit was operating in compliance with the specified limit. [Kern County Rule 424, Kern County Rule 407, District Rule 4301, 5.2.1, District Rule 4801, and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. [District Rules 4301, 5.2.2, 5.3, and 5.5 and 2520, 9.4.2], [Federally Enforceable Through Title V]
10. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
11. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
12. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

## Initial TV Permit

13. The requirements of SJVUAPCD Rule 4351(Amended October 19, 1995) do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
14. Total heat input to this unit shall be less than 30 billion BTU per calendar year. [District Rule 4305]
15. Unit shall be tuned at least once each calendar year in which it operates by a qualified technician in accordance with Rule 4304. [District Rules 4304 & 4305]
16. Unit shall be operated in accordance with the manufacturer's recommendations. [District Rule 4305]
17. Permittee shall maintain records of monthly and annual fuel consumption with a totalizing, non-resettable fuel meter, and shall make such records readily available for District inspection upon request. [District Rule 1070 and 2520, 9.4.2], [Federally Enforceable Through Title V]



**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-118-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

ONE 4,000 GALLON UNDERGROUND STORAGE TANK SERVED BY PHASE I VAPOR RECOVERY SYSTEM (G-70-97)  
AND 1 NOZZLE SERVED BY BALANCE PHASE II VAPOR RECOVERY SYSTEM (G-70-52). FAIRFIELD A-1 LEASE

**PERMIT UNIT REQUIREMENTS**

1. This gasoline storage and dispensing equipment shall not be used in retail sales, where gasoline dispensed by the unit is subject to payment of California sales tax on gasoline sales. [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. Each gasoline storage tank shall be equipped with a permanent submerged fill pipe. [District Rule 4621, 5.1.1], [Federally Enforceable Through Title V]
3. Each storage tank subject to this permit shall be equipped with an ARB certified Phase I vapor recovery system, which shall prevent at least 95% by weight of all gasoline vapors displaced during the filling of storage tanks from entering the atmosphere. The transfer of gasoline from any delivery vessel to any stationary storage container with 250 gallons or more shall not be allowed unless the container is equipped with an ARB certified Phase I system and maintained and operated according to manufacturers' specifications. [District Rule 4621, 3.1 and 5.1.1], [Federally Enforceable Through Title V]
4. No gasoline delivery vessel shall be operated or be allowed to operate unless valid State of California decals are displayed on the cargo tank which attest to the vapor integrity of the tank. [District Rule 4621, 5.2.1], [Federally Enforceable Through Title V]
5. Each dispensing system shall be equipped with ARB certified Phase II vapor recovery system which shall prevent at least 95% by weight of all gasoline vapors displaced during refueling of vehicles from entering the atmosphere. [District Rule 4622, 5.1], [Federally Enforceable Through Title V]
6. Compliance with the requirement of Phase II system to be 95% effective for displaced vapors is considered to be demonstrated by passing performance tests, at least once every year from the date of most recent test, or at more frequent intervals, as specified by the ARB Executive Order certifying system. Facilities that have not been performance tested previously, using the following applicable methods, shall be tested in accordance with BAAQMD Source Test Procedures ST-27 (Dynamic Back Pressure), ST-30 (Static Leak Test Procedure-Underground Tanks), and ST-38 (Static Leak Test Procedure-Aboveground Tanks) no later than: December 31, 1997 (facilities with 2 nozzles or more), and December 31, 1998 (facilities with 1 nozzle). [District Rules 2520, 9.4.2 and 4622, 5.2, 6.2, 6.3], [Federally Enforceable Through Title V]
7. Each ARB certified vapor recovery system shall be tested within 60 days of major modification or installation, except as otherwise allowed by this permit. For this condition, a major modification is considered to be replacing, repairing, or upgrading 75% or more of the certified system. [District Rule 4622, 6.2.2], [Federally Enforceable Through Title V]
8. Any ARB certified gasoline vapor recovery system and all of its components shall be maintained in good repair. Any ARB certified gasoline vapor recovery system, which has been installed and has been issued a permit to operate, shall not be removed regardless of the amount of gasoline dispensed or how the gasoline is delivered to the facility. [District Rule 4622, 5.3], [Federally Enforceable Through Title V]
9. No gasoline shall be transferred into vehicle fuel tanks if the vapor recovery system contains any defect listed in Section 94006 of Title 17 of the California Code of Regulations or in Section 5.4 of SJVUAPCD Rule 4622 (as amended February 17, 1994) until the defect has been repaired, replaced, or adjusted as necessary to correct the defect, and the District has reinspected the system or has authorized its use pending reinspection. [District Rule 4622, 5.4], [Federally Enforceable Through Title V]
10. Any defects identified shall be tagged "Out of Order"; the tagged equipment shall be rendered inoperable and the tag(s) shall not be removed until the defect has been repaired, replaced or adjusted. In the case of defects identified by the District, tagged equipment shall be rendered inoperable and the tag shall not be removed until the District has been notified of the repairs, and/or the District has inspected and authorized the tagged equipment for use. A log containing at least the following shall be maintained: date and type of defect identified and date repaired, replaced or corrected. [District Rules 2520, 9.4.2 and 4622, 5.5], [Federally Enforceable Through Title V]
11. Vapor recovery systems and gasoline dispensing equipment shall be maintained leak-free as verified using EPA Test Method 21 and visual inspection. Leak testing shall be performed at least annually and within 60 days of all major modifications. For this condition, a major modification is considered to be replacing, repairing, or upgrading 75% or more of the certified system. A leak is defined as the dripping at a rate of more than three (3) drops per minute of liquid containing VOCs or a reading as methane in excess of 10,000 ppm as determined using EPA Method 21. [District Rules 2520, 9.4.2 and 4622, 3.6, 5.6], [Federally Enforceable Through Title V]

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12. Each operator shall maintain a leak inspection log containing, at a minimum, the following: inspector's name, location and description of component type where any leak is found; date of leak detection, emission level (ppm) if applicable, and date leak is repaired. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. No person shall top off a motor vehicle fuel tank. [District Rule 4622, 5.9], [Federally Enforceable Through Title V]
14. No owner or operator shall tamper with, or permit tampering with, the ARB certified vapor recovery system in a manner that would impair the operation or effectiveness of the system. [District Rule 4622, 5.11], [Federally Enforceable Through Title V]
15. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVAPCD Rules 4621 except section 5.2.2 (as amended May 20, 1993), 4622 (as amended February 17, 1994), and 4623, section 5.4 (as amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
16. The requirements of County Rules 412 (Fresno, Kings, Stanislaus, Merced, and San Joaquin), 413 (Kern and Tulare), and 419 (Madera) do not apply to this permit unit. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
17. The requirements of District Rule 4403 (as amended February 16, 1995), 4623 except section 5.4 (as amended December 17, 1992), and 4624 (as amended December 17, 1992) do not apply to this permit unit. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
18. The requirements of 40 CFR 60 Subpart XX do not apply to this permit unit. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
19. All dispensers shall be equipped with high retractor or high-hang hose configurations. [District Rule 4622], [Federally Enforceable Through Title V]
20. All vapor line connections, fittings, lines and caps, and seals between nozzles and vehicles shall be vapor tight. [District Rule 4622], [Federally Enforceable Through Title V]
21. Pressure/Vacuum relief valves shall be maintained operational at all times. [District Rule 4622], [Federally Enforceable Through Title V]
22. The vapor recovery systems and their components shall be installed, operated, and maintained in accordance with the State certification requirements. [District Rules 4621 and 4622], [Federally Enforceable Through Title V]
23. The District shall be notified by the permittee 15 days prior to each test. The test results shall be submitted to the District no later than 30 days after each test. [District Rule 1081], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-119-3

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

25.2 MMBTU/HR TEOR/NATURAL GAS FIRED NATIONAL STEAM GENERATOR #MS-2 WITH FGR AND O2 CONTROLLER

## PERMIT UNIT REQUIREMENTS

1. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Last Amended December 16, 1993). [District Rule 1081 and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
2. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. Particulate matter emissions shall not exceed 0.1 grain/dscf, calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
4. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072-80, D 3031-81, D 4084-82, D 3246-81 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. If fuel analysis is used to demonstrate compliance with conditions of this permit, the fuel higher heating value for each fuel shall be certified by a third party fuel supplier or determined by ASTM D 1826-88 or D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels. [District Rule 2520, 9.4.2; 4305, 6.2.1; and 4351, 6.2.1], [Federally Enforceable Through Title V]
8. Sulfur emissions shall not exceed 0.11 lb of sulfur per million BTU of heat input, averaged over 3 - one hour periods. Compliance with this requirement may be demonstrated by firing the unit only on PUC or FERC regulated natural gas; multiplying the reported sulfur content of each fuel in lb/MMBtu by the maximum heat input rating of the unit; or by a combination of source testing for sulfur compounds and fuel analysis. Compliance may be demonstrated for this unit individually, or by showing that the total emissions of sulfur compounds from all steam generators located at the stationary source with ATC or PTO issued prior to September 12, 1979 does not exceed the emissions that would result if each unit was operating in compliance with the specified limit. [Kern County Rule 424, Kern County Rule 407, District Rule 4301, 5.2.1, District Rule 4801, and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. [District Rules 4301, 5.2.2, 5.3, and 5.5 and 2520, 9.4.2], [Federally Enforceable Through Title V]
10. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
11. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
12. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

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13. The requirements of SJVUAPCD Rule 4351(Amended October 19, 1995) do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
14. Emission rates shall not exceed any of the following: PM10: 0.005 lb/MMBtu, NOx (as NO2): 0.036 lb/MMBtu, VOC: 0.0055 lb/MMBtu or CO: 46.6 ppmv @ 3% O2. [District NSR Rule and 4305], [Federally Enforceable Through Title V]
15. SOx (as SO2) emissions shall not exceed 58.62 lb/hr. [District NSR Rule], [Federally Enforceable Through Title V]
16. Operation shall be equipped with flue gas recirculation valve setting indicator. [District NSR Rules and 4305], [Federally Enforceable Through Title V]
17. The acceptable FGR valve settings shall be established by testing emissions from this unit or other representative units as approved by the District. The acceptable settings shall be the minimum FGR recirculation rate setting with which compliance with applicable NOx and CO emissions limits have been demonstrated through source testing at a similar firing rate. [District Rule 4305 and 2520, 9.4.2], [Federally Enforceable Through Title V]
18. The flue gas recirculation valve shall be inspected at least on a weekly basis. [District Rule 4305 and 2520, 9.4.2], [Federally Enforceable Through Title V]
19. If the FGR valve setting is not within the acceptable setting, the permittee shall notify the District and return the valve setting to within the acceptable range within one (1) hour after detection. If the FGR valve setting is not corrected within (1) hour, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emissions limits at the observed FGR valve settings. [District Rule 4305 and 2520, 9.4.2], [Federally Enforceable Through Title V]
20. The permittee shall maintain records of the date and time of FGR valve setting observations and the observed setting. The records shall also include a description of any corrective action taken to maintain FGR valve setting at or above the minimum acceptable setting. These records shall be retained at the facility and shall be made available for District inspection upon request. [District Rule 4305 and 2520, 9.4.2], [Federally Enforceable Through Title V]
21. Compliance source testing shall be conducted under conditions representative of normal operation. [District Rule 1081], [Federally Enforceable Through Title V]
22. Steam generator exhaust stack shall be equipped with adequate provisions facilitating the collection of gas samples consistent with EPA Test Methods. [District Rule 1081], [Federally Enforceable Through Title V]
23. Source testing to measure NOx and CO emissions shall be conducted within 60 days of startup and not less than once every 12 months, except as provided below. [District Rules 4305, 4351, and 2520, 9.4.2], [Federally Enforceable Through Title V]
24. Source testing to measure NOx and CO emissions shall be conducted not less than once every 36 months if compliance is demonstrated on two consecutive annual tests. [District Rules 4305, 4351, and 2520, 9.4.2], [Federally Enforceable Through Title V]
25. If permittee fails any compliance demonstration for NOx and/or CO emission limits when testing not less than once every 36 months, compliance with NOx and CO emission limits shall be demonstrated not less than once every 12 months. [District Rules 4305, 4351, and 2520, 9.4.2], [Federally Enforceable Through Title V]
26. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081], [Federally Enforceable Through Title V]
27. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081], [Federally Enforceable Through Title V]
28. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081], [Federally Enforceable Through Title V]
29. The following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, NOx (lb/MMBtu) - EPA Method 19, CO (ppmv) - EPA Method 10 or ARB Method 100, and stack gas oxygen - EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4351, and 2520, 9.4.2], [Federally Enforceable Through Title V]
30. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 forty-minute test runs for NOx and CO. This mean shall be multiplied by the appropriate factor. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-120-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

21,714 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-121-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

21,714 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-122-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

43,428 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-123-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

43,428 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]



## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-124-3

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

43,428 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-125-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

43,428 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-126-3

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

43,428 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-127-3

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

43,428 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-128-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

43,428 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-129-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

43,428 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-130-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

43,428 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-131-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

43,428 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]



## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-133-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

65,142 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-134-5

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**  
20 UNCONTROLLED CYCLIC WELLS

## **PERMIT UNIT REQUIREMENTS**

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1. Permittee shall comply with vapor control requirements of Rule 4401, if the uncontrolled cyclic wells are located within 1000 feet from an existing well vent vapor control system operated by the company. [District Rule 4401, 4.5.1], [Federally Enforceable Through Title V]
2. A listing of all uncontrolled cyclic wells shall be submitted to the District at least 60 days prior to the permit anniversary date. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
4. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4401 (amended January 15, 1998), formerly District Rule 465.1, excluding sections 5.1 and 5.2 for control systems which have been waived from complying with the requirement of section 6.2.1. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
5. The requirements of SJVUAPCD Rule 4407 (Adopted May 19, 1994) do not apply to this permit unit. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-137-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

4,200 GALLON, 9 FT. DIA, 8 FT. HIGH, OIL PRODUCTION SUMP CANCELLED BY PERMITTEE AT RENEWAL BILLING - TEG 2/24/98)

## **PERMIT UNIT REQUIREMENTS**

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1. Tank shall have fixed roof without any holes or openings. [ ]
2. Tank roof appurtenances shall be maintained leak free. [ ]
3. Tank PV valve shall be set to within 10% of the maximum allowable working pressure of tank. [ ]
4. True vapor pressure of any organic liquid introduced to the tank shall not exceed 1.5 psia at liquid temperature. [District Rule 4623]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-142-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

5.5 MM BTU/HR NATURAL GAS FIRED BOILER (B & E/CENTRAL LEASE)

**PERMIT UNIT REQUIREMENTS**

1. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
2. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. Particulate matter emissions shall not exceed 0.1 grain/dscf, calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
4. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072-80, D 3031-81, D 4084-82, D 3246-81 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by ASTM D 1826-88 or D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels. [District Rule 2520, 9.4.2; 4305, 6.2.1; and 4351, 6.2.1], [Federally Enforceable Through Title V]
8. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume as measured on a dry basis over a 15 minute period. To demonstrate compliance with this requirement the operator shall do one of the following: fire the unit only on PUC or FERC regulated natural gas; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels; or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [Kern County Rule 407, District Rule 4301, District Rule 4801, and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. [District Rules 4301, 5.2.2, 5.3, and 5.5 and 2520, 9.4.2], [Federally Enforceable Through Title V]
10. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements of SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
11. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
12. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
13. Boiler shall be fired exclusively on natural gas or LPG and shall have no provisions for firing on fuel oil. [District NSR Rule], [Federally Enforceable Through Title V]

## Initial TV Permit

14. Fuel usage shall be less than 30 billion BTU per calendar year. [District Rule 4305 and District NSR Rule], [Federally Enforceable Through Title V]
15. Permittee shall either tune the unit at least once each calendar year in which it operates by a technician that is qualified in accordance with the procedure described in District Rule 4304, or operate the unit in a manner that maintains exhaust O<sub>2</sub> at less than or equal to 3.00% by volume on a dry basis. [District Rule 4305]
16. Permittee shall maintain accurate records of annual fuel usage, fuel heat content, and name and company of technician (if any) tuning the unit and make such records readily available for District inspection upon request. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-143-4

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

21.0 MMBTU/HR DUAL FIRED C.E. NATCO HEATER TREATER (FORMAX PROPERTY)

## **PERMIT UNIT REQUIREMENTS**

1. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
2. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. Particulate matter emissions shall not exceed 0.1 grain/dscf, calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
4. Source testing shall be performed using EPA Method 5 while firing on residual oil (including crude or topped crude) to demonstrate compliance with PM emission limits. Source testing shall be performed within 60 days of firing on residual oil unless such testing has been performed within the 12 month period prior to firing on said oil and the test results showed compliance with PM emission limits of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072-80, D 3031-81, D 4084-82, D 3246-81 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
8. If the unit is fired on noncertified liquid fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the liquid fuel being fired in the unit shall be determined using ASTM D 2880-71. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by: ASTM D 240-87 or D 2382-88 for liquid hydrocarbon fuels; ASTM D 1826-88 or D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels. [District Rule 2520, 9.4.2; 4305, 6.2.1; and 4351, 6.2.1], [Federally Enforceable Through Title V]
10. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume as measured on a dry basis over a 15 minute period. To demonstrate compliance with this requirement the operator shall do one of the following: fire the unit only on PUC or FERC regulated natural gas or diesel fuel not exceeding 0.5% sulfur by weight; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or 1.19% by weight for residual oil (including crude or topped crude); or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [Kern County Rule 407, District Rule 4301, 5.2.1, District Rule 4801, and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
11. Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. For residual and crude oil fired units, compliance may be demonstrated through supplier certification of nitrogen content and heating value or by weekly fuel testing for nitrogen content and heating value. Hourly emissions shall be calculated using the heating value, maximum rated unit capacity, and the following formula:  $\text{lb NO}_2/1000 \text{ gal} = 20.54 + 104.39 (N)$ , where N is the weight % nitrogen in the fuel. If compliance with the NO<sub>x</sub> emission limit is demonstrated through the fuel nitrogen content testing and compliance has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be bi-annually. If a bi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rules 4301, 5.2.2 and 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

12. If the unit is fired on noncertified residual or crude oil and compliance with NOx emission limits is achieved through fuel nitrogen content testing, then the nitrogen content of the fuel being fired in the unit shall be determined using ASTM D3431-80. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements of SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
14. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
15. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
16. Fuel oil preheat and atomization equipment shall be operated and maintained as intended by manufacturer. [District NSR Rule], [Federally Enforceable Through Title V]
17. Fuel oil sulfur content shall not exceed 1.19% by weight. [District NSR Rule], [Federally Enforceable Through Title V]
18. Fuel usage shall be less than 30 billion BTU per calendar year. [District Rule 4305 and District NSR Rule], [Federally Enforceable Through Title V]
19. Permittee shall either tune the unit at least once each calendar year in which it operates by a technician that is qualified in accordance with the procedure described in District Rule 4304, or operate the unit in a manner that maintains exhaust O2 at less than or equal to 3.00% by volume on a dry basis. [District Rule 4305]
20. Permittee shall maintain accurate records of annual fuel usage, fuel heat content, and name and company of technician (if any) tuning the unit and make such records readily available for District inspection upon request. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
21. When firing on fuel oil, weekly visible emissions inspection shall be performed using EPA Method 9. If visible emissions are observed, corrective action shall be taken to eliminate excessive visible emissions. [District rule 2520, 9.4.2], [Federally Enforceable Through Title V]
22. Records of inspections shall be kept and made available to the District upon request. The record shall at least include date and time of inspection, equipment description, corrective action taken, and identification of an individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-144-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

1,000 BRAKE HP WAUKESHA NATURAL GAS FIRED EMERGENCY I.C. ENGINE WITH GENERATOR

## **PERMIT UNIT REQUIREMENTS**

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1. The engine shall be equipped with a turbocharger and an intercooler. [District NSR Rule], [Federally Enforceable Through Title V]
  2. The engine shall be equipped with a non-selective Johnson Matthey Model 750-10 De-NOx and CO catalytic converter. [District NSR Rule], [Federally Enforceable Through Title V]
  3. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule], [Federally Enforceable Through Title V]
  4. The engine shall be equipped with an elapsed time meter indicating cumulative hours of engine operation. [District Rule 4701 and District NSR Rule], [Federally Enforceable Through Title V]
  5. The engine shall be equipped with an air-fuel ratio controller. [District NSR Rule], [Federally Enforceable Through Title V]
  6. Operation of the engine, for other than maintenance purposes, shall be limited to emergency use. [District Rule 4701 and District NSR Rule], [Federally Enforceable Through Title V]
  7. Operation of the engine for maintenance and testing purposes shall not exceed 200 hours per year. [District Rule 4701 and District NSR Rule], [Federally Enforceable Through Title V]
  8. This engine shall be operated only for maintenance and testing purposes and during involuntary utility power service failures. [District Rule 4701 and District NSR Rule], [Federally Enforceable Through Title V]
  9. The permittee shall maintain records of hours of emergency and non-emergency operation and of the sulfur content of the diesel fuel used and shall make such records readily available to District staff upon request. [District Rule 2201]
  10. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Kern County Rule 407 and District Rule 4801], [Federally Enforceable Through Title V]
  11. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404], [Federally Enforceable Through Title V]
  12. Unit shall be fired only on PUC quality natural gas with a sulfur content of less than or equal to 0.017% by weight. [Kern County Rule 407 and District Rule 4801], [Federally Enforceable Through Title V]
  13. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  14. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  15. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  16. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201; Rules 406 (Fresno), 404 (Madera), 407 (Kern, Kings, San Joaquin, Stanislaus, Merced, Tulare). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
  17. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rules 402 (Madera) and 404 (Fresno, Merced, Kern, Kings, San Joaquin, Stanislaus, Tulare). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]



**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-145-5

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

861 CYCLIC WELLS WITH CLOSED CASING VENTS

## **PERMIT UNIT REQUIREMENTS**

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1. The crude oil production from wells associated with this permit unit shall not lie within 1000 feet of an air injection well used for in-situ combustion. [District Rule 4407, 2.0, 3.4, and 3.5], [Federally Enforceable Through Title V]
2. All wells shall have closed casing vents. [District NSR Rule], [Federally Enforceable Through Title V]
3. A listing of all steam enhanced wells connected to this system shall be submitted to the District at least 60 days prior to the permit anniversary date. [District NSR Rule], [Federally Enforceable Through Title V]
4. All production facilities receiving fluids produced from these wells shall have District approved vapor control system to prevent VOC emissions which would otherwise be emitted at well vents. [District NSR Rule], [Federally Enforceable Through Title V]
5. Total uncontrolled VOC emissions from all well vents shall be reduced by at least 99%. [District Rule 4401], [Federally Enforceable Through Title V]
6. Total number of leaks shall not exceed that allowed by Rule 4401 [District Rule 4401], [Federally Enforceable Through Title V]
7. Leaks shall be inspected and repaired, and records shall be kept as required by Rule 4401 and be made readily available to the District. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
8. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4401 (Amended January 15, 1998), formerly District Rule 465.1, excluding sections 5.1 and 5.2 for control systems which have been waived from complying with the requirement of section 6.2.1. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
9. The requirements of SJVUAPCD Rule 4407 (Adopted May 19, 1994) do not apply to this permit unit. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-148-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

21,000 GALLON FIXED ROOF SUMP REPLACEMENT TANK WITH PRESSURE/VACUUM RELIEF VALVE

## **PERMIT UNIT REQUIREMENTS**

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1. True vapor pressure of crude oil shall not exceed 1.5 psia. [District Rule 4623, 2.0], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored. [District Rule 4623], [Federally Enforceable Through Title V]
6. Pressure/vacuum relief valve shall be set to within 10% of maximum allowable working pressure of tank. [District Rule 4623], [Federally Enforceable Through Title V]
7. The pressure/vacuum valve shall be inspected annually and shall be maintained in a good operating condition at all time. A record of an inspection shall be kept, maintained and made available to the District upon request. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
8. The APCO or any authorized representative, upon request, shall have access to, and copies of, any records required to be kept under the terms and conditions of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
10. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-149-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

42,000 GALLON FIXED ROOF PETROLEUM SHIPPING TANK

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-150-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

84,000 GALLON FIXED ROOF PETROLEUM SETTLING TANK

## **PERMIT UNIT REQUIREMENTS**

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-151-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

21,000 GALLON FIXED ROOF PETROLEUM TEST TANK

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-152-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

84,588 GALLON FIXED ROOF PETROLEUM SKIM TANK #4016141, FAIRFIELD A-1 TANK FARM

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-153-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

84,588 GALLON FIXED ROOF PETROLEUM WASH TANK #4016142, FAIRFIELD A-1 TANK FARM

## **PERMIT UNIT REQUIREMENTS**

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-154-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

84,588 GALLON FIXED ROOF PETROLEUM LACT TANK #4016143, FAIRFIELD A-1 TANK FARM

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]



## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-155-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

84,588 GALLON FIXED ROOF PETROLEUM LACT TANK #4016144, FAIRFIELD A-1 TANK FARM

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-156-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

5,040 GALLON FIXED ROOF PETROLEUM TEST TANK #2, ID#8362, FAIRFIELD A-1 TANK FARM

## **PERMIT UNIT REQUIREMENTS**

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080], [Federally Enforceable Through Title V]
2. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
3. The owner or operator shall not store, hold, or place any gasoline into this tank unless the tank is equipped with a pressure relief valve set within 10 percent of the maximum allowable working pressure or a vapor control system capable of reducing VOC emissions by at least 95%. [District Rule 4623, 5.4], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-157-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

5,040 GALLON FIXED ROOF PETROLEUM TEST TANK #1, ID#8342, FAIRFIELD A-1 TANK FARM

## **PERMIT UNIT REQUIREMENTS**

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080], [Federally Enforceable Through Title V]
2. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
3. The owner or operator shall not store, hold, or place any gasoline into this tank unless the tank is equipped with a pressure relief valve set within 10 percent of the maximum allowable working pressure or a vapor control system capable of reducing VOC emissions by at least 95%. [District Rule 4623, 5.4], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-158-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

21,000 GALLON FIXED ROOF PETROLEUM STORAGE RELIEF TANK #4016147, FAIRFIELD A-1 TANK FARM

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-159-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

10,500 GALLON FIXED ROOF PETROLEUM OVERFLOW TANK #4016148, FAIRFIELD A-1 TANK FARM

## **PERMIT UNIT REQUIREMENTS**

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080], [Federally Enforceable Through Title V]
2. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
3. The owner or operator shall not store, hold, or place any gasoline into this tank unless the tank is equipped with a pressure relief valve set within 10 percent of the maximum allowable working pressure or a vapor control system capable of reducing VOC emissions by at least 95%. [District Rule 4623, 5.4], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-160-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

45,486 GALLON FIXED ROOF PETROLEUM SHIPPING TANK ID# 156590, GP TANK FARM

## **PERMIT UNIT REQUIREMENTS**

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-161-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

45,486 GALLON FIXED ROOF PETROLEUM STORAGE TANK ID# 1245, SOUTHWESTERN TANK FARM

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-162-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

45,486 GALLON FIXED ROOF PETROLEUM STORAGE TANK ID# 1246, SOUTHWESTERN TANK FARM

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]



## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-163-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

45,486 GALLON FIXED ROOF PETROLEUM STORAGE TANK ID# 1247, SOUTHWESTERN TANK FARM

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-164-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

10,500 GALLON FIXED ROOF PETROLEUM TEST TANK #4016153, SOUTHWESTERN TANK FARM

## **PERMIT UNIT REQUIREMENTS**

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080], [Federally Enforceable Through Title V]
2. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
3. The owner or operator shall not store, hold, or place any gasoline into this tank unless the tank is equipped with a pressure relief valve set within 10 percent of the maximum allowable working pressure or a vapor control system capable of reducing VOC emissions by at least 95%. [District Rule 4623, 5.4], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-165-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

10,500 GALLON FIXED ROOF PETROLEUM TEST TANK #4016154, SOUTHWESTERN TANK FARM

## **PERMIT UNIT REQUIREMENTS**

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080], [Federally Enforceable Through Title V]
2. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
3. The owner or operator shall not store, hold, or place any gasoline into this tank unless the tank is equipped with a pressure relief valve set within 10 percent of the maximum allowable working pressure or a vapor control system capable of reducing VOC emissions by at least 95%. [District Rule 4623, 5.4], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-166-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

63,000 GALLON FIXED ROOF PETROLEUM STORAGE WASH TANK #4016155, SOUTHWESTERN TANK FARM

## PERMIT UNIT REQUIREMENTS

---

1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-167-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

21,000 GALLON FIXED ROOF PETROLEUM STORAGE SKIM TANK ID# R8209, SOUTHWESTERN TANK FARM

## PERMIT UNIT REQUIREMENTS

---

1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-168-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

21,000 GALLON FIXED ROOF PETROLEUM STORAGE SKIM TANK ID# R8208, SOUTHWESTERN TANK FARM

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-169-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

6,300 GALLON FIXED ROOF PETROLEUM STORAGE SKIM TANK #4016158, SOUTHWESTERN TANK FARM

## **PERMIT UNIT REQUIREMENTS**

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080], [Federally Enforceable Through Title V]
2. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
3. The owner or operator shall not store, hold, or place any gasoline into this tank unless the tank is equipped with a pressure relief valve set within 10 percent of the maximum allowable working pressure or a vapor control system capable of reducing VOC emissions by at least 95%. [District Rule 4623, 5.4], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-170-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

8.4 MMBTU/HR (WITH TWO 4.2 MMBTU/HR BURNERS) GAS-FIRED HEATER TREATER, FAIRFIELD LEASE.

**PERMIT UNIT REQUIREMENTS**

1. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
2. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. Particulate matter emissions shall not exceed 0.1 grain/dscf, calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
4. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072-80, D 3031-81, D 4084-82, D 3246-81 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by ASTM D 1826-88 or D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels. [District Rule 2520, 9.4.2; 4305, 6.2.1; and 4351, 6.2.1], [Federally Enforceable Through Title V]
8. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume as measured on a dry basis over a 15 minute period. To demonstrate compliance with this requirement the operator shall do one of the following: fire the unit only on PUC or FERC regulated natural gas; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels; or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [Kern County Rule 407, District Rule 4301, District Rule 4801, and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. [District Rules 4301, 5.2.2, 5.3, and 5.5 and 2520, 9.4.2], [Federally Enforceable Through Title V]
10. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements of SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
11. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
12. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
13. If continuous operation oxygen analyzer/controller is utilized, excess O<sub>2</sub> shall be maintained between 0.5 and 3.0%. If not utilized, excess air shall be maintained at no less than 15%. [District NSR Rule], [Federally Enforceable Through Title V]



## Initial TV Permit

14. Heater Treater shall be fired exclusively on natural gas or LPG and shall have no provisions for firing on fuel oil. [District NSR Rule], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-171-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

5.2 MMBTU/HR NATURAL GAS-FIRED HEATER TREATER, PAN LEASE

## PERMIT UNIT REQUIREMENTS

1. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
2. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. Particulate matter emissions shall not exceed 0.1 grain/dscf, calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
4. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072-80, D 3031-81, D 4084-82, D 3246-81 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by ASTM D 1826-88 or D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels. [District Rule 2520, 9.4.2; 4305, 6.2.1; and 4351, 6.2.1], [Federally Enforceable Through Title V]
8. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume as measured on a dry basis over a 15 minute period. To demonstrate compliance with this requirement the operator shall do one of the following: fire the unit only on PUC or FERC regulated natural gas; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels; or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [Kern County Rule 407, District Rule 4301, District Rule 4801, and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. [District Rules 4301, 5.2.2, 5.3, and 5.5 and 2520, 9.4.2], [Federally Enforceable Through Title V]
10. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements of SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
11. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
12. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
13. If continuous operation oxygen analyzer/controller is utilized, excess O<sub>2</sub> shall be maintained between 0.5 and 3.0%. If not utilized, excess air shall be maintained at no less than 15%. [District NSR Rule], [Federally Enforceable Through Title V]

## Initial TV Permit

14. Heater Treater shall be fired exclusively on natural gas or LPG and shall have no provisions for firing on fuel oil. [District NSR Rule], [Federally Enforceable Through Title V]
15. Fuel usage shall be less than 30 billion BTU per calendar year. [District Rule 4305 and District NSR Rule], [Federally Enforceable Through Title V]
16. Permittee shall either tune the unit at least once each calendar year in which it operates by a technician that is qualified in accordance with the procedure described in District Rule 4304, or operate the unit in a manner that maintains exhaust O<sub>2</sub> at less than or equal to 3.00% by volume on a dry basis. [District Rule 4305]
17. Permittee shall maintain accurate records of annual fuel usage, fuel heat content, and name and company of technician (if any) tuning the unit and make such records readily available for District inspection upon request. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-172-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

45,486 GALLON FIXED ROOF PETROLEUM STORAGE TANK #4016182, PAN TANK FARM

## **PERMIT UNIT REQUIREMENTS**

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-173-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

45,486 GALLON FIXED ROOF PETROLEUM STORAGE TANK #4016183, PAN LEASE

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-174-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

45,486 GALLON FIXED ROOF PETROLEUM STORAGE SKIM TANK #4016184, PAN TANK FARM

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-175-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

45,486 GALLON FIXED ROOF PETROLEUM DRAIN TANK #4016185, PAN TANK FARM

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-176-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

8,400 GALLON FIXED ROOF PETROLEUM TEST TANK #4016186, PAN TANK FARM

## **PERMIT UNIT REQUIREMENTS**

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080], [Federally Enforceable Through Title V]
2. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
3. The owner or operator shall not store, hold, or place any gasoline into this tank unless the tank is equipped with a pressure relief valve set within 10 percent of the maximum allowable working pressure or a vapor control system capable of reducing VOC emissions by at least 95%. [District Rule 4623, 5.4], [Federally Enforceable Through Title V]



**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-177-3

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

THERMAL ENHANCED OIL RECOVERY OPERATION SERVING 17 WELLS, INCLUDING: PRODUCTION WELL VENT VAPOR COLLECTION PIPING NETWORK, 3 GAS/LIQUID SEPARATORS, 1 GAS COMPRESSOR, 1 AIR-COOLED VAPOR CONDENSER AND PROVISIONS FOR INCINERATING VAPOR IN STEAM GEN.

## **PERMIT UNIT REQUIREMENTS**

1. The crude oil production from wells associated with this permit unit shall not lie within 1000 feet of an air injection well used for in-situ combustion. [District Rule 4407, 2.0, 3.4, and 3.5], [Federally Enforceable Through Title V]
2. The uncontrolled VOC emissions from any well vent shall be reduced by at least 99 percent by weight or, if several steam-enhanced crude oil production well vents are connected to a vapor collection and control system, total uncontrolled VOC emissions shall be reduced by at least 99 percent. [District Rule 4401, 5.1 and 5.2], [Federally Enforceable Through Title V]
3. Operator shall maintain all components of a well vent vapor collection and control system in good repair. Components of the well vent vapor collection and control system shall include all piping, valves, fittings, pumps, compressors, tanks, etc. used to collect, control, store, or dispose of VOC condensate or non-condensable VOCs and which is prior to any blending of VOC condensate with crude oil or blending of non-condensable VOCs with gases to be used as a fuel. [District Rule 4401, 5.3 and 5.3.2], [Federally Enforceable Through Title V]
4. During the time any steam-enhanced crude oil production well is undergoing service or repair while the well is not producing, it shall be exempt from the emission control requirements of District Rule 4401, 5.0 (as amended January 15, 1998). [District Rule 4401, 4.1], [Federally Enforceable Through Title V]
5. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (as amended December 16, 1993). [District Rule 1081 and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
6. The operator shall maintain monitoring records of the date and well identification where steam injection or well stimulation occurs. [District Rule 4401, 6.1], [Federally Enforceable Through Title V]
7. Operator shall affix a readily visible tag bearing the date on which a leak is detected. The tag shall remain in place until the leaking component is repaired. [District Rule 4401, 5.3.1], [Federally Enforceable Through Title V]
8. Operator shall repair each leak within 15 days of detection. The APCO may grant a 10 day extension if the operator demonstrates that the necessary and sufficient actions have and are being taken to correct the leak. [District Rule 4401, 5.3.1], [Federally Enforceable Through Title V]
9. Annual control efficiency compliance tests shall be performed on all vapor collection and control systems used to control emissions from steam-enhanced crude oil production wells. Testing shall be performed by source testers certified by the California Air Resource Board (CARB) during June, July, August or September of each year if the system's control efficiency is dependent upon ambient air temperature. The APCO may waive the requirements of this condition if the vapor control system does not exhaust to atmosphere or if all uncondensed VOC emissions collected by a vapor collection and control system are incinerated in fuel burning equipment, an internal combustion engine, or in a smokeless open flare, and the source's Operating Permit contains adequate periodic monitoring to ensure the source meets 99% control efficiency. [District Rule 4401, 5.1, 5.2 and 6.2.1], [Federally Enforceable Through Title V]
10. The control efficiency of systems designed to control VOC emissions from steam enhanced crude oil production well shall be determined by mass balance based on most stringent of a source test, USEPA approved emission factors for components and number of components; and the efficiency of destruction devices determined by USEPA Method 25, 25a, or 25b as applicable. [District Rule 4401, 6.4.1], [Federally Enforceable Through Title V]
11. VOC content shall be determined using the latest version of ASTM Method E168, E169, or E260 as applicable. Halogenated exempt compounds shall be determined by CARB Method 432. [District Rule 4401, 6.4.2], [Federally Enforceable Through Title V]
12. The source shall perform leak inspections at least annually, using a portable hydrocarbon detection instrument in accordance with USEPA Method 21. [District Rules 2520, 9.4.2 and 4401, 6.4.3], [Federally Enforceable Through Title V]
13. A listing of all steam enhanced wells connected to this system shall be submitted to the District at least 60 days prior to the permit anniversary date. [District Rule 4401], [Federally Enforceable Through Title V]
14. Leaks shall be inspected and repaired as specified in Rule 4401. [District Rule 4401], [Federally Enforceable Through Title V]

## Initial TV Permit

15. Final vapor condenser shall utilize exhaust gas temperature indicator. [District Rule 2080], [Federally Enforceable Through Title V]
16. Mist eliminator shall be maintained in optimum operating condition. [District Rule 2080], [Federally Enforceable Through Title V]
17. If flare or incinerator is utilized it shall be of smokeless design utilizing steam atomization. [District Rule 2080], [Federally Enforceable Through Title V]
18. If flare or incinerator is to be utilized for vapor disposal, well vents vapors shall not be vented directly to the atmosphere. [District Rule 4401], [Federally Enforceable Through Title V]
19. Total number of leaks from the vapor collection and control system, including condensate handling, shall not exceed 3 leaks, at any one time. [District Rule 4401, 5.3], [Federally Enforceable Through Title V]
20. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
21. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4401 (Amended January 15, 1998), formerly District Rule 465.1, excluding sections 5.1 and 5.2 for control systems which have been waived from complying with the requirement of section 6.2.1. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
22. The requirements of SJVUAPCD Rule 4407 (Adopted May 19, 1994) do not apply to this permit unit. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-178-0

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

2.5 MMBTU/HR OIL FIRED NATIONAL HEATER TREATER

## **PERMIT UNIT REQUIREMENTS**

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1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Particulate matter emissions from any combustion source shall not exceed 0.1 grains/dscf (calculated to 12% carbon dioxide). [District Rule 4301]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. Fuel oil sulfur content shall not exceed 1.1% by weight. [ ]
5. All permits for facilities #S-1246 and #S-2265 are included in Berry Petroleum Company's Heavy Oil Western stationary source. [ ]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-179-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

THERMALLY ENHANCED OIL RECOVERY OPERATION WELL VENT VAPOR CONTROL SYSTEM SERVING 4 STEAM ENHANCED WELLS

## **PERMIT UNIT REQUIREMENTS**

1. The crude oil production from wells associated with this permit unit shall not lie within 1000 feet of an air injection well used for in-situ combustion. [District Rule 4407, 2.0, 3.4, and 3.5], [Federally Enforceable Through Title V]
2. The uncontrolled VOC emissions from any well vent shall be reduced by at least 99 percent by weight or, if several steam-enhanced crude oil production well vents are connected to a vapor collection and control system, total uncontrolled VOC emissions shall be reduced by at least 99 percent. [District Rule 4401, 5.1 and 5.2], [Federally Enforceable Through Title V]
3. Operator shall maintain all components of a well vent vapor collection and control system in good repair. Components of the well vent vapor collection and control system shall include all piping, valves, fittings, pumps, compressors, tanks, etc. used to collect, control, store, or dispose of VOC condensate or non-condensable VOCs and which is prior to any blending of VOC condensate with crude oil or blending of non-condensable VOCs with gases to be used as a fuel. [District Rule 4401, 5.3 and 5.3.2], [Federally Enforceable Through Title V]
4. During the time any steam-enhanced crude oil production well is undergoing service or repair while the well is not producing, it shall be exempt from the emission control requirements of District Rule 4401, 5.0 (as amended January 15, 1998). [District Rule 4401, 4.1], [Federally Enforceable Through Title V]
5. All required source testing shall conform to the compliance testing procedures described in District Rule 1081(as amended December 16, 1993). [District Rule 1081 and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
6. The operator shall maintain monitoring records of the date and well identification where steam injection or well stimulation occurs. [District Rule 4401, 6.1], [Federally Enforceable Through Title V]
7. Operator shall affix a readily visible tag bearing the date on which a leak is detected. The tag shall remain in place until the leaking component is repaired. [District Rule 4401, 5.3.1], [Federally Enforceable Through Title V]
8. Operator shall repair each leak within 15 days of detection. The APCO may grant a 10 day extension if the operator demonstrates that the necessary and sufficient actions have and are being taken to correct the leak. [District Rule 4401, 5.3.1], [Federally Enforceable Through Title V]
9. Annual control efficiency compliance tests shall be performed on all vapor collection and control systems used to control emissions from steam-enhanced crude oil production wells. Testing shall be performed by source testers certified by the California Air Resource Board (CARB) during June, July, August or September of each year if the system's control efficiency is dependent upon ambient air temperature. The APCO may waive the requirements of this condition if the vapor control system does not exhaust to atmosphere or if all uncondensed VOC emissions collected by a vapor collection and control system are incinerated in fuel burning equipment, an internal combustion engine, or in a smokeless open flare, and the source's Operating Permit contains adequate periodic monitoring to ensure the source meets 99% control efficiency. [District Rule 4401, 5.1, 5.2 and 6.2.1], [Federally Enforceable Through Title V]
10. The control efficiency of systems designed to control VOC emissions from steam enhanced crude oil production well shall be determined by mass balance based on most stringent of a source test, USEPA approved emission factors for components and number of components; and the efficiency of destruction devices determined by USEPA Method 25, 25a, or 25b as applicable. [District Rule 4401, 6.4.1], [Federally Enforceable Through Title V]
11. VOC content shall be determined using the latest version of ASTM Method E168, E169, or E260 as applicable. Halogenated exempt compounds shall be determined by CARB Method 432. [District Rule 4401, 6.4.2], [Federally Enforceable Through Title V]
12. The source shall perform leak inspections at least annually, using a portable hydrocarbon detection instrument in accordance with USEPA Method 21. [District Rules 2520, 9.4.2 and 4401, 6.4.3], [Federally Enforceable Through Title V]
13. The operation shall be equipped with 4 steam enhanced wells, 1 vapor compressor, and compressed vapor piping to District authorized disposal/incineration devices. [District Rule 2080], [Federally Enforceable Through Title V]
14. Listing of all steam enhanced wells connected to system shall be submitted to District 60 days prior to permit renewal. [District Rule 4401], [Federally Enforceable Through Title V]

## Initial TV Permit

15. There shall be no more than 3 leaks from the vapor collection and control system, including condensate handling, at any one time. [District Rule 4401, 5.3], [Federally Enforceable Through Title V]
16. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
17. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4401 (Amended January 15, 1998), formerly District Rule 465.1, excluding sections 5.1 and 5.2 for control systems which have been waived from complying with the requirement of section 6.2.1. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
18. The requirements of SJVUAPCD Rule 4407 (Adopted May 19, 1994) do not apply to this permit unit. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-180-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

THERMALLY ENHANCED OIL RECOVERY OPERATION WELL VENT VAPOR CONTROL SYSTEM SERVING 7 STEAM ENHANCED WELLS.

## **PERMIT UNIT REQUIREMENTS**

1. The crude oil production from wells associated with this permit unit shall not lie within 1000 feet of an air injection well used for in-situ combustion. [District Rule 4407, 2.0, 3.4, and 3.5], [Federally Enforceable Through Title V]
2. The uncontrolled VOC emissions from any well vent shall be reduced by at least 99 percent by weight or, if several steam-enhanced crude oil production well vents are connected to a vapor collection and control system, total uncontrolled VOC emissions shall be reduced by at least 99 percent. [District Rule 4401, 5.1 and 5.2], [Federally Enforceable Through Title V]
3. Operator shall maintain all components of a well vent vapor collection and control system in good repair. Components of the well vent vapor collection and control system shall include all piping, valves, fittings, pumps, compressors, tanks, etc. used to collect, control, store, or dispose of VOC condensate or non-condensable VOCs and which is prior to any blending of VOC condensate with crude oil or blending of non-condensable VOCs with gases to be used as a fuel. [District Rule 4401, 5.3 and 5.3.2], [Federally Enforceable Through Title V]
4. During the time any steam-enhanced crude oil production well is undergoing service or repair while the well is not producing, it shall be exempt from the emission control requirements of District Rule 4401, 5.0 (as amended January 15, 1998). [District Rule 4401, 4.1], [Federally Enforceable Through Title V]
5. All required source testing shall conform to the compliance testing procedures described in District Rule 1081(as amended December 16, 1993). [District Rule 1081 and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
6. The operator shall maintain monitoring records of the date and well identification where steam injection or well stimulation occurs. [District Rule 4401, 6.1], [Federally Enforceable Through Title V]
7. Operator shall affix a readily visible tag bearing the date on which a leak is detected. The tag shall remain in place until the leaking component is repaired. [District Rule 4401, 5.3.1], [Federally Enforceable Through Title V]
8. Operator shall repair each leak within 15 days of detection. The APCO may grant a 10 day extension if the operator demonstrates that the necessary and sufficient actions have and are being taken to correct the leak. [District Rule 4401, 5.3.1], [Federally Enforceable Through Title V]
9. Annual control efficiency compliance tests shall be performed on all vapor collection and control systems used to control emissions from steam-enhanced crude oil production wells. Testing shall be performed by source testers certified by the California Air Resource Board (CARB) during June, July, August or September of each year if the system's control efficiency is dependent upon ambient air temperature. The APCO may waive the requirements of this condition if the vapor control system does not exhaust to atmosphere or if all uncondensed VOC emissions collected by a vapor collection and control system are incinerated in fuel burning equipment, an internal combustion engine, or in a smokeless open flare, and the source's Operating Permit contains adequate periodic monitoring to ensure the source meets 99% control efficiency. [District Rule 4401, 5.1, 5.2 and 6.2.1], [Federally Enforceable Through Title V]
10. The control efficiency of systems designed to control VOC emissions from steam enhanced crude oil production well shall be determined by mass balance based on most stringent of a source test, USEPA approved emission factors for components and number of components; and the efficiency of destruction devices determined by USEPA Method 25, 25a, or 25b as applicable. [District Rule 4401, 6.4.1], [Federally Enforceable Through Title V]
11. VOC content shall be determined using the latest version of ASTM Method E168, E169, or E260 as applicable. Halogenated exempt compounds shall be determined by CARB Method 432. [District Rule 4401, 6.4.2], [Federally Enforceable Through Title V]
12. The source shall perform leak inspections at least annually, using a portable hydrocarbon detection instrument in accordance with USEPA Method 21. [District Rules 2520, 9.4.2 and 4401, 6.4.3], [Federally Enforceable Through Title V]
13. The operation shall be equipped with 7 steam enhanced wells, 1 vapor compressor, and compressed vapor piping to District authorized disposal/incineration devices. [District Rule 2080], [Federally Enforceable Through Title V]
14. Listing of all steam enhanced wells connected to system shall be submitted to District 60 days prior to permit renewal. [District Rule 4401], [Federally Enforceable Through Title V]

## Initial TV Permit

15. There shall be no more than 3 leaks from the vapor collection and control system, including condensate handling, at any one time. [District Rule 4401, 5.3], [Federally Enforceable Through Title V]
16. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
17. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4401 (Amended January 15, 1998), formerly District Rule 465.1, excluding sections 5.1 and 5.2 for control systems which have been waived from complying with the requirement of section 6.2.1. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
18. The requirements of SJVUAPCD Rule 4407 (Adopted May 19, 1994) do not apply to this permit unit. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-182-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

ONE 2,000 GALLON ABOVEGROUND TRUSCO SUPERVAULT GASOLINE STORAGE TANK WITH ONE DISPENSING NOZZLE SERVED BY TWO-POINT PHASE I AND BALANCE PHASE II VAPOR RECOVERY SYSTEM (G-70-132)

**PERMIT UNIT REQUIREMENTS**

1. This gasoline storage and dispensing equipment shall not be used in retail sales, where gasoline dispensed by the unit is subject to payment of California sales tax on gasoline sales. [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. Each gasoline storage tank shall be equipped with a permanent submerged fill pipe. [District Rule 4621, 5.1.1], [Federally Enforceable Through Title V]
3. Each aboveground storage tank subject to this permit shall be equipped with a pressure-vacuum valve set to within 10% of the maximum allowable working pressure of the tank. No gasoline shall be placed, stored, or held in any aboveground tank of 250 gallons capacity or more unless it is so equipped. [District Rule 4621, 5.1.2], [Federally Enforceable Through Title V]
4. Each storage tank subject to this permit shall be equipped with an ARB certified Phase I vapor recovery system, which shall prevent at least 95% by weight of all gasoline vapors displaced during the filling of storage tanks from entering the atmosphere. The transfer of gasoline from any delivery vessel to any stationary storage container with 250 gallons or more shall not be allowed unless the container is equipped with an ARB certified Phase I system and maintained and operated according to manufacturers' specifications. [District Rule 4621, 3.1 and 5.1.1], [Federally Enforceable Through Title V]
5. No gasoline delivery vessel shall be operated or be allowed to operate unless valid State of California decals are displayed on the cargo tank which attest to the vapor integrity of the tank. [District Rule 4621, 5.2.1], [Federally Enforceable Through Title V]
6. Each dispensing system shall be equipped with ARB certified Phase II vapor recovery system which shall prevent at least 95% by weight of all gasoline vapors displaced during refueling of vehicles from entering the atmosphere. [District Rule 4622, 5.1], [Federally Enforceable Through Title V]
7. Compliance with the requirement of Phase II system to be 95% effective for displaced vapors is considered to be demonstrated by passing performance tests, at least once every year from the date of most recent test, or at more frequent intervals, as specified by the ARB Executive Order certifying system. Facilities that have not been performance tested previously, using the following applicable methods, shall be tested in accordance with BAAQMD Source Test Procedures ST-27 (Dynamic Back Pressure), ST-30 (Static Leak Test Procedure-Underground Tanks), and ST-38 (Static Leak Test Procedure-Aboveground Tanks) no later than: December 31, 1997 (facilities with 2 nozzles or more), and December 31, 1998 (facilities with 1 nozzle). [District Rules 2520, 9.4.2 and 4622, 5.2, 6.2, 6.3], [Federally Enforceable Through Title V]
8. Each ARB certified vapor recovery system shall be tested within 60 days of major modification or installation, except as otherwise allowed by this permit. For this condition, a major modification is considered to be replacing, repairing, or upgrading 75% or more of the certified system. [District Rule 4622, 6.2.2], [Federally Enforceable Through Title V]
9. Any ARB certified gasoline vapor recovery system and all of its components shall be maintained in good repair. Any ARB certified gasoline vapor recovery system, which has been installed and has been issued a permit to operate, shall not be removed regardless of the amount of gasoline dispensed or how the gasoline is delivered to the facility. [District Rule 4622, 5.3], [Federally Enforceable Through Title V]
10. No gasoline shall be transferred into vehicle fuel tanks if the vapor recovery system contains any defect listed in Section 94006 of Title 17 of the California Code of Regulations or in Section 5.4 of SJVUAPCD Rule 4622 (as amended February 17, 1994) until the defect has been repaired, replaced, or adjusted as necessary to correct the defect, and the District has reinspected the system or has authorized its use pending reinspection. [District Rule 4622, 5.4], [Federally Enforceable Through Title V]
11. Any defects identified shall be tagged "Out of Order"; the tagged equipment shall be rendered inoperable and the tag(s) shall not be removed until the defect has been repaired, replaced or adjusted. In the case of defects identified by the District, tagged equipment shall be rendered inoperable and the tag shall not be removed until the District has been notified of the repairs, and/or the District has inspected and authorized the tagged equipment for use. A log containing at least the following shall be maintained: date and type of defect identified and date repaired, replaced or corrected. [District Rules 2520, 9.4.2 and 4622, 5.5], [Federally Enforceable Through Title V]



## Initial TV Permit

12. Vapor recovery systems and gasoline dispensing equipment shall be maintained leak-free as verified using EPA Test Method 21 and visual inspection. Leak testing shall be performed at least annually and within 60 days of all major modifications. For this condition, a major modification is considered to be replacing, repairing, or upgrading 75% or more of the certified system. A leak is defined as the dripping at a rate of more than three (3) drops per minute of liquid containing VOCs or a reading as methane in excess of 10,000 ppm as determined using EPA Method 21. [District Rules 2520, 9.4.2 and 4622, 3.6, 5.6], [Federally Enforceable Through Title V]
13. Each operator shall maintain a leak inspection log containing, at a minimum, the following: inspector's name, location and description of component type where any leak is found; date of leak detection, emission level (ppm) if applicable, and date leak is repaired. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
14. No person shall top off a motor vehicle fuel tank. [District Rule 4622, 5.9], [Federally Enforceable Through Title V]
15. No owner or operator shall tamper with, or permit tampering with, the ARB certified vapor recovery system in a manner that would impair the operation or effectiveness of the system. [District Rule 4622, 5.11], [Federally Enforceable Through Title V]
16. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVAPCD Rules 4621 except section 5.2.2 (as amended May 20, 1993), 4622 (as amended February 17, 1994), and 4623, section 5.4 (as amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
17. The requirements of County Rules 412 (Fresno, Kings, Stanislaus, Merced, and San Joaquin), 413 (Kern and Tulare), and 419 (Madera) do not apply to this permit unit. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
18. The requirements of District Rule 4403 (as amended February 16, 1995), 4623 except section 5.4 (as amended December 17, 1992), and 4624 (as amended December 17, 1992) do not apply to this permit unit. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
19. The requirements of 40 CFR 60 Subpart XX do not apply to this permit unit. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
20. The District shall be notified by the permittee 15 days prior to each test. The test results shall be submitted to the District no later than 30 days after each test. [District Rule 1081], [Federally Enforceable Through Title V]
21. The vapor recovery systems and their components shall be operated and maintained in accordance with the State certification requirements. [District Rules 4621 and 4622], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-183-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

200 BBL FIXED ROOF PETROLEUM WASH TANK

## **PERMIT UNIT REQUIREMENTS**

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080], [Federally Enforceable Through Title V]
2. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
3. The owner or operator shall not store, hold, or place any gasoline into this tank unless the tank is equipped with a pressure relief valve set within 10 percent of the maximum allowable working pressure or a vapor control system capable of reducing VOC emissions by at least 95%. [District Rule 4623, 5.4], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-184-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

1,035 BBL FIXED ROOF PETROLEUM SHIPPING TANK #5230

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-185-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

1,035 BBL FIXED ROOF PETROLEUM SHIPPING TANK #5231

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-186-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

500 BBL FIXED ROOF OIL PRODUCTION TEST TANK

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-188-0

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

63,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #TA00M7A0 (ALPINE LEASE)

## **PERMIT UNIT REQUIREMENTS**

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1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. All permits for facilities #S-1246 and #S-2265 are included in Berry Petroleum Company's Heavy Oil Western stationary source. [ ]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-189-0

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

63,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #TA00M7A1 (ALPINE LEASE)

## **PERMIT UNIT REQUIREMENTS**

---

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. All permits for facilities #S-1246 and #S-2265 are included in Berry Petroleum Company's Heavy Oil Western stationary source. [ ]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-190-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

42,000 GALLON FIXED ROOF WASH TANK (MIDWAY 32 LEASE)

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]



## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-191-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #TA00M730 (MIDWAY 32 LEASE)

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-192-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

84,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #TAOOM750 (ETHEL D LEASE)

## **PERMIT UNIT REQUIREMENTS**

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-193-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

84,000 GALLON FIXED FOOT PETROLEUM STORAGE TANK #TAOOM753 (ETHEL D LEASE)

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-194-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

12,600 GALLON FIXED ROOF DRAIN TANK (ETHEL D LEASE)

## **PERMIT UNIT REQUIREMENTS**

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080], [Federally Enforceable Through Title V]
2. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
3. The owner or operator shall not store, hold, or place any gasoline into this tank unless the tank is equipped with a pressure relief valve set within 10 percent of the maximum allowable working pressure or a vapor control system capable of reducing VOC emissions by at least 95%. [District Rule 4623, 5.4], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-195-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

10,500 GALLON (250 BBL) FIXED ROOF WASH TANK (ETHEL D LEASE)

## **PERMIT UNIT REQUIREMENTS**

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080], [Federally Enforceable Through Title V]
2. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
3. The owner or operator shall not store, hold, or place any gasoline into this tank unless the tank is equipped with a pressure relief valve set within 10 percent of the maximum allowable working pressure or a vapor control system capable of reducing VOC emissions by at least 95%. [District Rule 4623, 5.4], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-196-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

420 GALLON FIXED ROOF PETROLEUM STORAGE TANK, COMPRESSOR TANK (ETHEL D LEASE)

## **PERMIT UNIT REQUIREMENTS**

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080], [Federally Enforceable Through Title V]
2. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
3. The owner or operator shall not store, hold, or place any gasoline into this tank unless the tank is equipped with a pressure relief valve set within 10 percent of the maximum allowable working pressure or a vapor control system capable of reducing VOC emissions by at least 95%. [District Rule 4623, 5.4], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-197-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

2000 BBL SUMP REPLACEMENT TANK.

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The tank shall be fitted with a pressure/vacuum vent set to within ten (10) percent of the maximum allowable working pressure of the tank. [District NSR Rule], [Federally Enforceable Through Title V]
7. The pressure/vacuum vent shall be inspected annually and shall be maintained in a good operating condition at all time. A log of an inspection shall be kept, maintained and made available to the District upon request. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
8. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
9. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-198-0

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

63,000 GALLON FIXED ROOF CRUDE OIL PRODUCTION TANK, SHIP TANK \*\* PTO SURRENDERED UPON IMPLEMENTATION OF ATC S-1246-200-0, 7/10/98, JRS \*\*

## PERMIT UNIT REQUIREMENTS

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080]



**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-199-0

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

67,200 GALLON FIXED ROOF CRUDE OIL PRODUCTION TANK, SHIP TANK \*\* PTO SURRENDERED UPON IMPLEMENTATION OF ATC S-1246-201-0, 7/10/98, JRS \*\*

## **PERMIT UNIT REQUIREMENTS**

- 
1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-200-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

42,000 GALLON (1000 BBL) FIXED ROOF CRUDE OIL STORAGE TANK (USL 12 LEASE)

## **PERMIT UNIT REQUIREMENTS**

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-201-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

42,000 GALLON (1000 BBL) FIXED ROOF CRUDE OIL STORAGE TANK (USL 12 LEASE)

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-202-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

8.4 MM BTU/HR (WITH TWO 4.2 MMBTU/HR BURNERS) RHEM SUPERIOR HEATER TREATER (GAS-FIRED).

**PERMIT UNIT REQUIREMENTS**

1. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
2. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. Particulate matter emissions shall not exceed 0.1 grain/dscf, calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
4. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072-80, D 3031-81, D 4084-82, D 3246-81 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by ASTM D 1826-88 or D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels. [District Rule 2520, 9.4.2; 4305, 6.2.1; and 4351, 6.2.1], [Federally Enforceable Through Title V]
8. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume as measured on a dry basis over a 15 minute period. To demonstrate compliance with this requirement the operator shall do one of the following: fire the unit only on PUC or FERC regulated natural gas; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels; or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [Kern County Rule 407, District Rule 4301, District Rule 4801, and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. [District Rules 4301, 5.2.2, 5.3, and 5.5 and 2520, 9.4.2], [Federally Enforceable Through Title V]
10. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements of SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
11. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
12. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
13. Gas combusted in heater treater shall not exceed 192,000 scf/day. [District NSR Rule], [Federally Enforceable Through Title V]
14. Heater treater shall be equipped with fuel volume flowmeter. [District NSR Rule], [Federally Enforceable Through Title V]

## Initial TV Permit

15. Emission rates shall not exceed any of the following: PM10: 0.005 lb/MMBtu, SOx: 0.001 lb/MMBtu, NOx: 0.095 lb/MMBtu, VOC: 0.005 lb/MMBtu, or CO: 0.019 lb/MMBtu. [District NSR Rule], [Federally Enforceable Through Title V]
16. This unit shall be fired only on Public Utility Commission (PUC) regulated quality natural gas only. [District NSR Rule], [Federally Enforceable Through Title V]
17. Fuel usage shall be less than 30 billion BTU per calendar year. [District NSR Rule and District rule 4305], [Federally Enforceable Through Title V]
18. Permittee shall either tune the unit at least once each calendar year in which it operates by a technician that is qualified in accordance with the procedure described in District Rule 4304, or operate the unit in a manner that maintains exhaust O2 at less than or equal to 3.00% by volume on a dry basis. [District Rule 4305]
19. Permittee shall maintain accurate records of annual fuel usage, fuel heat content, and name and company of technician (if any) tuning the unit and make such records readily available for District inspection upon request. [District Rule 4305 and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-203-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

8.4 MMBTU/HR (WITH TWO 4.2 MMBTU/HR BURNERS) DUAL-FIRED C.E. NATCO HEATER TREATER.

## PERMIT UNIT REQUIREMENTS

1. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
2. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. Particulate matter emissions shall not exceed 0.1 grain/dscf, calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
4. Source testing shall be performed using EPA Method 5 while firing on residual oil (including crude or topped crude) to demonstrate compliance with PM emission limits. Source testing shall be performed within 60 days of firing on residual oil unless such testing has been performed within the 12 month period prior to firing on said oil and the test results showed compliance with PM emission limits of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072-80, D 3031-81, D 4084-82, D 3246-81 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
8. If the unit is fired on noncertified liquid fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the liquid fuel being fired in the unit shall be determined using ASTM D 2880-71. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by: ASTM D 240-87 or D 2382-88 for liquid hydrocarbon fuels; ASTM D 1826-88 or D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels. [District Rule 2520, 9.4.2; 4305, 6.2.1; and 4351, 6.2.1], [Federally Enforceable Through Title V]
10. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume as measured on a dry basis over a 15 minute period. To demonstrate compliance with this requirement the operator shall do one of the following: fire the unit only on PUC or FERC regulated natural gas or diesel fuel not exceeding 0.5% sulfur by weight; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels or 1.2% by weight for residual oil (including crude or topped crude); or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [Kern County Rule 407, District Rule 4301, 5.2.1, District Rule 4801, and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
11. Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. For residual and crude oil fired units, compliance may be demonstrated through supplier certification of nitrogen content and heating value or by weekly fuel testing for nitrogen content and heating value. Hourly emissions shall be calculated using the heating value, maximum rated unit capacity, and the following formula:  $\text{lb NO}_2/1000 \text{ gal} = 20.54 + 104.39 (N)$ , where N is the weight % nitrogen in the fuel. If compliance with the NO<sub>x</sub> emission limit is demonstrated through the fuel nitrogen content testing and compliance has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be bi-annually. If a bi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rules 4301, 5.2.2 and 2520, 9.4.2], [Federally Enforceable Through Title V]

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12. If the unit is fired on noncertified residual or crude oil and compliance with NOx emission limits is achieved through fuel nitrogen content testing, then the nitrogen content of the fuel being fired in the unit shall be determined using ASTM D3431-80. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements of SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
14. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
15. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
16. Fuel oil preheat and atomization equipment shall be operated and maintained as intended by manufacturer. [District NSR Rule], [Federally Enforceable Through Title V]
17. Excess combustion air shall be maintained at no less than 15% unless continuous operation oxygen analyzer/controller is utilized. [District NSR Rule], [Federally Enforceable Through Title V]
18. Fuel oil sulfur content shall not exceed 1.2% by weight. [District NSR Rule], [Federally Enforceable Through Title V]
19. Maximum fuel oil consumption rate shall not exceed 1368 gal/day. [District NSR Rule], [Federally Enforceable Through Title V]
20. Particulate matter (PM-10) emission rate shall not exceed 13.14 lb/day. [District NSR Rule], [Federally Enforceable Through Title V]
21. Sulfur compound emission rate shall not exceed 164.98 lb/day as SO<sub>2</sub> and 5.31 lb/day as SO<sub>4</sub>. [District NSR Rule], [Federally Enforceable Through Title V]
22. Carbon monoxide (CO) emission rate shall not exceed 4.38 lb/day. [District NSR Rule], [Federally Enforceable Through Title V]
23. Nitrogen oxide (NO<sub>x</sub>) emission rate shall not exceed 69.18 lb/day. [District NSR Rule], [Federally Enforceable Through Title V]
24. Volatile organic compound (VOC) emission rate shall not exceed 0.88 lb/day. [District NSR Rule], [Federally Enforceable Through Title V]
25. Maximum fuel gas consumption rate shall not exceed 209 MSCF/day. [District NSR Rule], [Federally Enforceable Through Title V]
26. Fuel gas sulfur content shall not exceed 2.83 gr/DSCF. [District NSR Rule], [Federally Enforceable Through Title V]
27. When firing on fuel oil, weekly visible emissions inspection shall be performed using EPA Method 9. If visible emissions are observed, corrective action shall be taken to eliminate excessive visible emissions. [District rule 2520, 9.4.2], [Federally Enforceable Through Title V]
28. Records of inspections shall be kept and made available to the District upon request. The record shall at least include date and time of inspection, equipment description, corrective action taken, and identification of an individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
29. A daily log of fuel consumption and type of fuel burned shall be maintained, kept and made available to the District upon request. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-204-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

23 MM BTU/HR C.E. NATCO STEAM GENERATOR (GAS-FIRED)

## PERMIT UNIT REQUIREMENTS

1. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Last Amended December 16, 1993). [District Rule 1081 and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
2. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. Particulate matter emissions shall not exceed 0.1 grain/dscf, calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
4. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072-80, D 3031-81, D 4084-82, D 3246-81 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. If fuel analysis is used to demonstrate compliance with conditions of this permit, the fuel higher heating value for each fuel shall be certified by a third party fuel supplier or determined by ASTM D 1826-88 or D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels. [District Rule 2520, 9.4.2; 4305, 6.2.1; and 4351, 6.2.1], [Federally Enforceable Through Title V]
8. Sulfur emissions shall not exceed 0.11 lb of sulfur per million BTU of heat input, averaged over 3 - one hour periods. Compliance with this requirement may be demonstrated by firing the unit only on PUC or FERC regulated natural gas; multiplying the reported sulfur content of each fuel in lb/MMBtu by the maximum heat input rating of the unit; or by a combination of source testing for sulfur compounds and fuel analysis. Compliance may be demonstrated for this unit individually, or by showing that the total emissions of sulfur compounds from all steam generators located at the stationary source with ATC or PTO issued prior to September 12, 1979 does not exceed the emissions that would result if each unit was operating in compliance with the specified limit. [Kern County Rule 424, Kern County Rule 407, District Rule 4301, 5.2.1, District Rule 4801, and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. [District Rules 4301, 5.2.2, 5.3, and 5.5 and 2520, 9.4.2], [Federally Enforceable Through Title V]
10. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
11. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
12. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]



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13. The requirements of SJVUAPCD Rule 4351(Amended October 19, 1995) do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
14. Excess combustion air shall be maintained at no less than 15% unless continuous operation oxygen analyzer/controller is utilized. [District NSR Rule], [Federally Enforceable Through Title V]
15. This unit shall be fired on natural gas only. [District NSR Rule], [Federally Enforceable Through Title V]
16. Fuel usage shall be less than 30 billion BTU per calendar year. [District NSR Rule and District Rule 4305], [Federally Enforceable Through Title V]
17. Permittee shall either tune the unit at least once each calendar year in which it operates by a technician that is qualified in accordance with the procedure described in District Rule 4304, or operate the unit in a manner that maintains exhaust O2 at less than or equal to 3.00% by volume on a dry basis. [District Rule 4305]
18. Permittee shall maintain accurate records of annual fuel usage, fuel heat content, and name and company of technician (if any) tuning the unit and make such records readily available for District inspection upon request. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-205-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

680 BHP IC ENGINE POWERING A 507 KW ELECTRICAL GENERATOR (LOW USE)

## **PERMIT UNIT REQUIREMENTS**

1. Sulfur compound emissions shall not exceed 2000 ppmv as SO<sub>2</sub>. To demonstrate compliance with this requirement, the engine shall be fired on ARB certified diesel fuel with sulfur content less than 0.05% by weight, or on diesel fuel with sulfur content not exceeding 3.0% by weight. [District Rule 4801 and Kern County Rule 407], [Federally Enforceable Through Title V]
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201], [Federally Enforceable Through Title V]
3. The operating hours of the I.C. engine shall not exceed 1,000 hours during any one calendar year. [District Rule 4701]
4. An annual log of the engine operating hours including all operational use and operation for maintenance and testing purposes shall be kept on the premises at all times. [District Rule 4701 and District NSR Rule], [Federally Enforceable Through Title V]
5. Engine shall be equipped with an operational, non-resettable, totalizing hour meter. [District Rule 4701 and District NSR Rule], [Federally Enforceable Through Title V]
6. If the IC engine is fired on Air Resources Board regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, the operator shall maintain copies of all fuel invoices and supplier certifications. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. If the IC engine is not fired on ARB regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, then the owner or operator shall determine the sulfur content of each delivery of diesel fuel being fired in the IC engine. The sulfur content shall be determined using ASTM method D 2880-71. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
8. Operator shall perform a source test for particulate emissions within 6 months of the initial Title V permit issuance. A source test for particulate emissions conducted within the 24 months prior to permit issuance shall be considered compliance with this testing requirement. Source testing for particulate matter shall be performed according to EPA Method 5, stack gas velocity by EPA Method 2, and the stack gas moisture content by EPA Method 4. If the initial PM test result is less than or equal to 0.06 grain/dscf, then testing shall occur not less than once every 5 years. Otherwise testing shall occur not less than once every 24 months. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. Visible emissions shall be inspected quarterly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions, and a visible emissions test using EPA Method 9 shall be conducted within 3 working days, or during the next scheduled training/testing period if the unit ceases firing on diesel fuel within the 3 working day time frame. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-206-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

1,050 HP DIESEL FIRED IC ENGINE POWERING A 784 KW ELECTRICAL GENERATOR (LOW-USE)

## **PERMIT UNIT REQUIREMENTS**

1. Sulfur compound emissions shall not exceed 2000 ppmv as SO<sub>2</sub>. To demonstrate compliance with this requirement, the engine shall be fired on ARB certified diesel fuel with sulfur content less than 0.05% by weight, or on diesel fuel with sulfur content not exceeding 3.0% by weight. [District Rule 4801 and Kern County Rule 407], [Federally Enforceable Through Title V]
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201], [Federally Enforceable Through Title V]
3. The operating hours of the I.C. engine shall not exceed 1,000 hours during any one calendar year. [District Rule 4701]
4. An annual log of the engine operating hours including all operational use and operation for maintenance and testing purposes shall be kept on the premises at all times. [District Rule 4701 and District NSR Rule], [Federally Enforceable Through Title V]
5. Engine shall be equipped with an operational, non-resettable, totalizing hour meter. [District Rule 4701 and District NSR Rule], [Federally Enforceable Through Title V]
6. If the IC engine is fired on Air Resources Board regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, the operator shall maintain copies of all fuel invoices and supplier certifications. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. If the IC engine is not fired on ARB regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, then the owner or operator shall determine the sulfur content of each delivery of diesel fuel being fired in the IC engine. The sulfur content shall be determined using ASTM method D 2880-71. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
8. Operator shall perform a source test for particulate emissions within 6 months of the initial Title V permit issuance. A source test for particulate emissions conducted within the 24 months prior to permit issuance shall be considered compliance with this testing requirement. Source testing for particulate matter shall be performed according to EPA Method 5, stack gas velocity by EPA Method 2, and the stack gas moisture content by EPA Method 4. If the initial PM test result is less than or equal to 0.06 grain/dscf, then testing shall occur not less than once every 5 years. Otherwise testing shall occur not less than once every 24 months. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. Visible emissions shall be inspected quarterly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions, and a visible emissions test using EPA Method 9 shall be conducted within 3 working days, or during the next scheduled training/testing period if the unit ceases firing on diesel fuel within the 3 working day time frame. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-207-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

8.4 MM BTU/HR NATURAL GAS FIRED HEATER TREATER (#3, TANNEHILL LEASE)

## PERMIT UNIT REQUIREMENTS

1. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
2. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. Particulate matter emissions shall not exceed 0.1 grain/dscf, calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
4. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072-80, D 3031-81, D 4084-82, D 3246-81 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by ASTM D 1826-88 or D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels. [District Rule 2520, 9.4.2; 4305, 6.2.1; and 4351, 6.2.1], [Federally Enforceable Through Title V]
8. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume as measured on a dry basis over a 15 minute period. To demonstrate compliance with this requirement the operator shall do one of the following: fire the unit only on PUC or FERC regulated natural gas; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels; or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [Kern County Rule 407, District Rule 4301, District Rule 4801, and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. [District Rules 4301, 5.2.2, 5.3, and 5.5 and 2520, 9.4.2], [Federally Enforceable Through Title V]
10. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements of SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
11. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
12. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
13. Excess combustion air shall be maintained at no less than 10% unless continuous operation analyzer/controller is utilized. [District NSR Rule], [Federally Enforceable Through Title V]

## Initial TV Permit

14. This unit shall be fired only on natural gas or liquified petroleum gas (LPG). [District NSR Rule], [Federally Enforceable Through Title V]
15. Fuel usage shall be less than 30 billion BTU per calendar year. [District Rule 4305 and District NSR Rule], [Federally Enforceable Through Title V]
16. Permittee shall either tune the unit at least once each calendar year in which it operates by a technician that is qualified in accordance with the procedure described in District Rule 4304, or operate the unit in a manner that maintains exhaust O<sub>2</sub> at less than or equal to 3.00% by volume on a dry basis. [District Rule 4305]
17. Permittee shall maintain accurate records of annual fuel usage, fuel heat content, and name and company of technician (if any) tuning the unit and make such records readily available for District inspection upon request. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-208-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

126,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## **PERMIT UNIT REQUIREMENTS**

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-209-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

67,200 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-210-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

67,200 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]



## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-211-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-212-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-213-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-214-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

29,400 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-215-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

67,200 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-216-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

126,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-217-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-218-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

21,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## **PERMIT UNIT REQUIREMENTS**

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]



**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-219-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

21,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## **PERMIT UNIT REQUIREMENTS**

---

1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-220-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-221-0

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

8,400 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-222-0

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

8,400 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-223-0

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

8,400 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-224-0

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

8,400 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-225-0

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

8,400 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-226-0

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

8,400 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080]



## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-227-0

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

8,400 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-228-0

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

8,400 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-229-0

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

8,400 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-230-0

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

8,400 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## **PERMIT UNIT REQUIREMENTS**

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-231-0

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

8,400 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080]

## Initial TV Permit

### San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-232-0

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

8,400 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-233-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-234-0

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

8,400 GALLON FIXED ROOF PETROLEUM STORAGE TANK

## **PERMIT UNIT REQUIREMENTS**

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1. See facility-wide requirements for requirements applicable to this permit unit. [District Rule 2080]



**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-235-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

TEOR OPERATION, INCLUDING UP TO 293 STEAM ENHANCED OIL PRODUCTION WELLS, 6 AIR-COOLED AND 3 SHELL AND TUBE HEAT EXCHANGERS, 21 GAS/LIQUID SEPARATORS, 26 VAPOR COMPRESSORS, 29 CONDENSATE PUMPS AND 3.0 MMBTU/HR FREE WATER KNOCKOUT VESSEL

## **PERMIT UNIT REQUIREMENTS**

1. The crude oil production from wells associated with this permit unit shall not lie within 1000 feet of an air injection well used for in-situ combustion. [District Rule 4407, 2.0, 3.4, and 3.5], [Federally Enforceable Through Title V]
2. The uncontrolled VOC emissions from any well vent shall be reduced by at least 99 percent by weight or, if several steam-enhanced crude oil production well vents are connected to a vapor collection and control system, total uncontrolled VOC emissions shall be reduced by at least 99 percent. [District Rule 4401, 5.1 and 5.2], [Federally Enforceable Through Title V]
3. Operator shall maintain all components of a well vent vapor collection and control system in good repair. Components of the well vent vapor collection and control system shall include all piping, valves, fittings, pumps, compressors, tanks, etc. used to collect, control, store, or dispose of VOC condensate or non-condensable VOCs and which is prior to any blending of VOC condensate with crude oil or blending of non-condensable VOCs with gases to be used as a fuel. [District Rule 4401, 5.3 and 5.3.2], [Federally Enforceable Through Title V]
4. During the time any steam-enhanced crude oil production well is undergoing service or repair while the well is not producing, it shall be exempt from the emission control requirements of District Rule 4401, 5.0 (as amended January 15, 1998). [District Rule 4401, 4.1], [Federally Enforceable Through Title V]
5. All required source testing shall conform to the compliance testing procedures described in District Rule 1081(as amended December 16, 1993). [District Rule 1081 and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
6. The operator shall maintain monitoring records of the date and well identification where steam injection or well stimulation occurs. [District Rule 4401, 6.1], [Federally Enforceable Through Title V]
7. Operator shall affix a readily visible tag bearing the date on which a leak is detected. The tag shall remain in place until the leaking component is repaired. [District Rule 4401, 5.3.1], [Federally Enforceable Through Title V]
8. Operator shall repair each leak within 15 days of detection. The APCO may grant a 10 day extension if the operator demonstrates that the necessary and sufficient actions have and are being taken to correct the leak. [District Rule 4401, 5.3.1], [Federally Enforceable Through Title V]
9. Annual control efficiency compliance tests shall be performed on all vapor collection and control systems used to control emissions from steam-enhanced crude oil production wells. Testing shall be performed by source testers certified by the California Air Resource Board (CARB) during June, July, August or September of each year if the system's control efficiency is dependent upon ambient air temperature. The APCO may waive the requirements of this condition if the vapor control system does not exhaust to atmosphere or if all uncondensed VOC emissions collected by a vapor collection and control system are incinerated in fuel burning equipment, an internal combustion engine, or in a smokeless open flare, and the source's Operating Permit contains adequate periodic monitoring to ensure the source meets 99% control efficiency. [District Rule 4401, 5.1, 5.2 and 6.2.1], [Federally Enforceable Through Title V]
10. The control efficiency of systems designed to control VOC emissions from steam enhanced crude oil production well shall be determined by mass balance based on most stringent of a source test, USEPA approved emission factors for components and number of components; and the efficiency of destruction devices determined by USEPA Method 25, 25a, or 25b as applicable. [District Rule 4401, 6.4.1], [Federally Enforceable Through Title V]
11. VOC content shall be determined using the latest version of ASTM Method E168, E169, or E260 as applicable. Halogenated exempt compounds shall be determined by CARB Method 432. [District Rule 4401, 6.4.2], [Federally Enforceable Through Title V]
12. The source shall perform leak inspections at least annually, using a portable hydrocarbon detection instrument in accordance with USEPA Method 21. [District Rules 2520, 9.4.2 and 4401, 6.4.3], [Federally Enforceable Through Title V]
13. A listing of all steam enhanced wells authorized by this permit shall be submitted to the District at least 60 days prior to the permit anniversary date. [District Rules 4401], [Federally Enforceable Through Title V]
14. Leaks shall be inspected and repaired as specified in Rule 4401. [District Rule 4401], [Federally Enforceable Through Title V]

## Initial TV Permit

15. Well vent vapors shall be controlled by any of the following methods: incineration in approved incineration devices, injection in gas injection wells, or closing well casing vents. [District Rule 4401], [Federally Enforceable Through Title V]
16. Approved incineration devices are heater treaters S-1246-202, '-203, '-207 or 3.0 MMBtu/hr free water knockout. [District NSR Rule], [Federally Enforceable Through Title V]
17. Gas injection wells shall be operated under valid DOG Permit to Conduct Well Operations. Such permit shall be available for District inspection upon request. [District NSR Rule], [Federally Enforceable Through Title V]
18. Any indication of increased VOC emissions at first atmospheric production tank serving wells with closed casing vents shall require quantification. [District NSR Rule], [Federally Enforceable Through Title V]
19. Operation shall include tank vapor space piping from 6 fixed roof petroleum storage tanks PTO numbers S-1246-236 through '-240 and '-242. [District Rule 2080], [Federally Enforceable Through Title V]
20. Sulfur content of vapors incinerated in 3.0 MMBtu/hr free water knockout shall not exceed 0.75 gr/100 scf. [District NSR Rule], [Federally Enforceable Through Title V]
21. Non-methane volatile organic compound content of vapors shall not exceed 14.7% by volume. [District NSR Rule], [Federally Enforceable Through Title V]
22. The total number of leaks (as defined by rule 4401) shall not exceed 15. [District Rule 4401, 5.3], [Federally Enforceable Through Title V]
23. Condensate shall be disposed of in a manner preventing VOC emissions to atmosphere. [District Rule 4401], [Federally Enforceable Through Title V]
24. If VOC combustion devices are inoperable, well casing vent gases shall not be vented to atmosphere. [District Rule 4401], [Federally Enforceable Through Title V]
25. Condensed liquids from gas-liquid separators shall be piped only to District permitted tanks with vapor control. [District Rule 4401], [Federally Enforceable Through Title V]
26. Uncondensed vapor piping to incineration devices shall be equipped with temperature indicator and volume flowrate indicator. [District Rule 2080], [Federally Enforceable Through Title V]
27. Components serving 293 steam enhanced wells shall not exceed 941 gate valves, 392 ball valves, 618 plug valves, 228 check valves, 18 relief valves, 945 flanged connections, 10117 threaded connections, 901 unions, and 13 pressure regulators. [District NSR Rule], [Federally Enforceable Through Title V]
28. Fugitive emission rate of volatile organic compounds (VOC's) shall not exceed 5.70 lb/hr. [District NSR Rule], [Federally Enforceable Through Title V]
29. The sulfur content of vapors incinerated in 3.0 MMBtu/hr free water knockout vessel shall be measured and documented annually. [District NSR Rule], [Federally Enforceable Through Title V]
30. Volatile organic compound (VOC) content of vapors shall be measured and documented annually. [District NSR Rule], [Federally Enforceable Through Title V]
31. The sulfur content of the gaseous fuel being fired in the 3.0 MMBtu/hr free water knockout shall be determined using ASTM D 1072-80, D 3031-81, D 4084-82, D 3246-81 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
32. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
33. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4401 (Amended January 15, 1998), formerly District Rule 465.1, excluding sections 5.1 and 5.2 for control systems which have been waived from complying with the requirement of section 6.2.1. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
34. The requirements of SJVUAPCD Rule 4407 (Adopted May 19, 1994) do not apply to this permit unit. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-236-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

4,226 GALLON FIXED ROOF SHIPPING TANK #TK-22 CONNECTED TO VAPOR CONTROL SYSTEM S-1246-235.

## **PERMIT UNIT REQUIREMENTS**

1. Tank vapors shall vent only to collection system and discharge only to TEOR operation S-1246-235. [District NSR Rule], [Federally Enforceable Through Title V]
2. Maximum emission rate of oxides of sulfur (SOx) as sulfur dioxide (SO2) shall not exceed 0.00 lb/hr. [District NSR Rule], [Federally Enforceable Through Title V]
3. Maximum emission rate of volatile organic compounds (VOC's) shall not exceed 0.00 lb/hr. [District NSR Rule], [Federally Enforceable Through Title V]
4. Tank shall be operated at constant level. [District NSR Rule], [Federally Enforceable Through Title V]
5. Reid vapor pressure of liquids placed, stored or held in the tank shall not exceed 1.5 psia. [District NSR Rule], [Federally Enforceable Through Title V]
6. Maximum liquid storage temperature shall not exceed 180 degrees Fahrenheit. [District NSR Rule], [Federally Enforceable Through Title V]
7. Permittee shall maintain accurate records of Reid vapor pressure (sampled at least once per year), and storage temperature (monitored at least once per month). [District NSR Rule], [Federally Enforceable Through Title V]
8. Tank gauging, sampling devices, relief valves, manholes and etc. shall be equipped with resilient gas-tight (as defined in Rule 4623) gaskets and shall remain closed at all times except during gauging or sampling. [District Rule 4623], [Federally Enforceable Through Title V]
9. Tank seams, welds, joints, piping, valves and fittings shall be inspected and maintained in gas-tight condition pursuant to Rule 4623. [District Rule 4623], [Federally Enforceable Through Title V]
10. The tank shall be equipped with a vapor loss prevention system capable of collecting all VOC emissions and preventing their emissions to the atmosphere at an efficiency of at least 99% by weight. [District Rule 4623, 5.3.1], [Federally Enforceable Through Title V]
11. Any component leak shall be repaired to a leak-free condition or vented to a flare satisfying the requirements of 40 CFR 60.18 or to a vapor control device that is at least 95 percent efficient as measured by EPA Method 25 within fifteen (15) calendar days of detection. The APCO may grant a ten (10) calendar day extension provided the operator demonstrates that necessary and sufficient actions are being taken to correct the leak within this time period. Any vapor control device, other than a flare, used to comply with this condition shall demonstrate at least 95% control efficiency as measured by EPA Method 25 at least annually. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
12. All piping, fittings, and valves shall be inspected annually by the facility operator in accordance with EPA Method 21, with the instrument calibrated with methane, to ensure compliance with the provisions of this permit. If any of the tank components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If no tank components are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired at the next process unit turnaround (the scheduled shutdown of a unit for maintenance and repair work). [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. The facility operator, upon detection of a leaking component, shall affix to that component a weatherproof readily visible tag bearing the date on which the leak is detected. The tag shall remain in place until the leaking component is repaired, reinspected and found to be in compliance with the requirements of this rule. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
14. An operator shall reinspect a component for leaks within thirty working days after the date on which the component is repaired. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
15. Emissions from components which have been tagged by the facility operator for repair within 15 calendar days or which have been repaired and are awaiting re-inspection shall not be in violation of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

16. Any component leak shall be repaired to a leak-free condition or vented to a vapor control device within fifteen (15) calendar days of detection. The APCO may grant a ten (10) calendar day extension provided the operator demonstrates that necessary and sufficient actions are being taken to correct the leak within this time period. Any vapor control device used to comply with this condition shall be determined the control efficiency by EPA Method 25 at least annually. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. If the leaking component is an essential part of a critical process unit which cannot be immediately shut down for repairs, the operator shall 1) Minimize the leak within 15 calendar days; and 2) If the leak which has been minimized still exceeds the concentration allowed by this permit, the essential component shall be repaired to eliminate the leak during the next process unit turnaround, but in no case later than one year from the date of the original leak detection. A critical process unit is any process unit which would result in the automatic shutdown of other process units if it were shut down. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
18. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date of leak detection, and method of detection; 3) Date and emission level of recheck after leak is repaired; 4) Identification and location of essential parts of critical process units found leaking that cannot be repaired until the next process unit turnaround; and 5) Method used to minimize the leak from essential parts of critical process units which cannot be repaired until the next process unit turnaround. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
19. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 4623, 6.2.2], [Federally Enforceable Through Title V]
20. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 4623, 6.2.3], [Federally Enforceable Through Title V]
21. Control efficiency shall be determined by a comparison of controlled emissions to those emissions which would occur from a fixed or cone roof tank in the same product service without a vapor recovery system. Emissions shall be determined based on tank emission factors in EPA Publication AP-42, component counts for fugitive emissions sources, recognized emission factors for fugitive emission sources and the efficiency of any VOC destruction device. [District Rule 4623, 6.2.4], [Federally Enforceable Through Title V]
22. The efficiency of any VOC destruction device shall be measured by EPA Method 25, 25a, or 25b. [District Rule 4623, 6.2.5], [Federally Enforceable Through Title V]
23. The operator shall ensure that the vapor recovery system is functional and is operating as designed at all times. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
24. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
25. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
26. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-237-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

8,400 GALLON FIXED ROOF SHIPPING TANK #TK-24 CONNECTED TO VAPOR RECOVERY SYSTEM S-1246-235.

## **PERMIT UNIT REQUIREMENTS**

1. Tank vapors shall vent only to collection system and discharge only to TEOR operation S-1246-235. [District NSR Rule], [Federally Enforceable Through Title V]
2. Maximum emission rate of oxides of sulfur (SOx) as sulfur dioxide (SO2) shall not exceed 0.00 lb/hr. [District NSR Rule], [Federally Enforceable Through Title V]
3. Maximum emission rate of volatile organic compounds (VOC's) shall not exceed 0.00 lb/hr. [District NSR Rule], [Federally Enforceable Through Title V]
4. Maximum tank throughput shall not exceed 75 barrels/day. [District NSR Rule], [Federally Enforceable Through Title V]
5. Reid vapor pressure of liquids placed, stored or held in the tank shall not exceed 1.5 psia. [District NSR Rule], [Federally Enforceable Through Title V]
6. Maximum liquid storage temperature shall not exceed 180 degrees Fahrenheit. [District NSR Rule], [Federally Enforceable Through Title V]
7. Permittee shall maintain accurate records of daily throughput, Reid vapor pressure (sampled at least once per year), and storage temperature (monitored at least once per month). [District NSR Rule], [Federally Enforceable Through Title V]
8. Tank gauging, sampling devices, relief valves, manholes and etc. shall be equipped with resilient gas-tight (as defined in Rule 4623) gaskets and shall remain closed at all times except during gauging or sampling. [District Rule 4623], [Federally Enforceable Through Title V]
9. Tank seams, welds, joints, piping, valves and fittings shall be inspected and maintained in gas-tight condition pursuant to Rule 4623. [District Rule 4623], [Federally Enforceable Through Title V]
10. The tank shall be equipped with a vapor loss prevention system capable of collecting all VOC emissions and preventing their emissions to the atmosphere at an efficiency of at least 99% by weight. [District Rule 4623, 5.3.1], [Federally Enforceable Through Title V]
11. Any component leak shall be repaired to a leak-free condition or vented to a flare satisfying the requirements of 40 CFR 60.18 or to a vapor control device that is at least 95 percent efficient as measured by EPA Method 25 within fifteen (15) calendar days of detection. The APCO may grant a ten (10) calendar day extension provided the operator demonstrates that necessary and sufficient actions are being taken to correct the leak within this time period. Any vapor control device, other than a flare, used to comply with this condition shall demonstrate at least 95% control efficiency as measured by EPA Method 25 at least annually. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
12. All piping, fittings, and valves shall be inspected annually by the facility operator in accordance with EPA Method 21, with the instrument calibrated with methane, to ensure compliance with the provisions of this permit. If any of the tank components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If no tank components are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired at the next process unit turnaround (the scheduled shutdown of a unit for maintenance and repair work). [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. The facility operator, upon detection of a leaking component, shall affix to that component a weatherproof readily visible tag bearing the date on which the leak is detected. The tag shall remain in place until the leaking component is repaired, reinspected and found to be in compliance with the requirements of this rule. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
14. An operator shall reinspect a component for leaks within thirty working days after the date on which the component is repaired. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
15. Emissions from components which have been tagged by the facility operator for repair within 15 calendar days or which have been repaired and are awaiting re-inspection shall not be in violation of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

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16. Any component leak shall be repaired to a leak-free condition or vented to a vapor control device within fifteen (15) calendar days of detection. The APCO may grant a ten (10) calendar day extension provided the operator demonstrates that necessary and sufficient actions are being taken to correct the leak within this time period. Any vapor control device used to comply with this condition shall be determined the control efficiency by EPA Method 25 at least annually. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. If the leaking component is an essential part of a critical process unit which cannot be immediately shut down for repairs, the operator shall 1) Minimize the leak within 15 calendar days; and 2) If the leak which has been minimized still exceeds the concentration allowed by this permit, the essential component shall be repaired to eliminate the leak during the next process unit turnaround, but in no case later than one year from the date of the original leak detection. A critical process unit is any process unit which would result in the automatic shutdown of other process units if it were shut down. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
18. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date of leak detection, and method of detection; 3) Date and emission level of recheck after leak is repaired; 4) Identification and location of essential parts of critical process units found leaking that cannot be repaired until the next process unit turnaround; and 5) Method used to minimize the leak from essential parts of critical process units which cannot be repaired until the next process unit turnaround. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
19. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 4623, 6.2.2], [Federally Enforceable Through Title V]
20. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 4623, 6.2.3], [Federally Enforceable Through Title V]
21. Control efficiency shall be determined by a comparison of controlled emissions to those emissions which would occur from a fixed or cone roof tank in the same product service without a vapor recovery system. Emissions shall be determined based on tank emission factors in EPA Publication AP-42, component counts for fugitive emissions sources, recognized emission factors for fugitive emission sources and the efficiency of any VOC destruction device. [District Rule 4623, 6.2.4], [Federally Enforceable Through Title V]
22. The efficiency of any VOC destruction device shall be measured by EPA Method 25, 25a, or 25b. [District Rule 4623, 6.2.5], [Federally Enforceable Through Title V]
23. The operator shall ensure that the vapor recovery system is functional and is operating as designed at all times. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
24. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
25. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
26. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-238-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

8,400 GALLON FIXED ROOF SHIPPING TANK #TK-23 CONNECTED TO VAPOR RECOVERY SYSTEM S-1246-235.

## **PERMIT UNIT REQUIREMENTS**

1. Tank vapors shall vent only to collection system and discharge only to TEOR operation S-1246-235. [District NSR Rule], [Federally Enforceable Through Title V]
2. Maximum emission rate of oxides of sulfur (SOx) as sulfur dioxide (SO2) shall not exceed 0.00 lb/hr. [District NSR Rule], [Federally Enforceable Through Title V]
3. Maximum emission rate of volatile organic compounds (VOC's) shall not exceed 0.00 lb/hr. [District NSR Rule], [Federally Enforceable Through Title V]
4. Maximum tank throughput shall not exceed 75 barrels/day. [District NSR Rule], [Federally Enforceable Through Title V]
5. Reid vapor pressure of liquids placed, stored or held in the tank shall not exceed 1.5 psia. [District NSR Rule], [Federally Enforceable Through Title V]
6. Maximum liquid storage temperature shall not exceed 180 degrees Fahrenheit. [District NSR Rule], [Federally Enforceable Through Title V]
7. Permittee shall maintain accurate records of daily throughput, Reid vapor pressure (sampled at least once per year), and storage temperature (monitored at least once per month). [District NSR Rule], [Federally Enforceable Through Title V]
8. Tank gauging, sampling devices, relief valves, manholes and etc. shall be equipped with resilient gas-tight (as defined in Rule 4623) gaskets and shall remain closed at all times except during gauging or sampling. [District Rule 4623], [Federally Enforceable Through Title V]
9. Tank seams, welds, joints, piping, valves and fittings shall be inspected and maintained in gas-tight condition pursuant to Rule 4623. [District Rule 4623], [Federally Enforceable Through Title V]
10. The tank shall be equipped with a vapor loss prevention system capable of collecting all VOC emissions and preventing their emissions to the atmosphere at an efficiency of at least 99% by weight. [District Rule 4623, 5.3.1], [Federally Enforceable Through Title V]
11. Any component leak shall be repaired to a leak-free condition or vented to a flare satisfying the requirements of 40 CFR 60.18 or to a vapor control device that is at least 95 percent efficient as measured by EPA Method 25 within fifteen (15) calendar days of detection. The APCO may grant a ten (10) calendar day extension provided the operator demonstrates that necessary and sufficient actions are being taken to correct the leak within this time period. Any vapor control device, other than a flare, used to comply with this condition shall demonstrate at least 95% control efficiency as measured by EPA Method 25 at least annually. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
12. All piping, fittings, and valves shall be inspected annually by the facility operator in accordance with EPA Method 21, with the instrument calibrated with methane, to ensure compliance with the provisions of this permit. If any of the tank components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If no tank components are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired at the next process unit turnaround (the scheduled shutdown of a unit for maintenance and repair work). [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. The facility operator, upon detection of a leaking component, shall affix to that component a weatherproof readily visible tag bearing the date on which the leak is detected. The tag shall remain in place until the leaking component is repaired, reinspected and found to be in compliance with the requirements of this rule. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
14. An operator shall reinspect a component for leaks within thirty working days after the date on which the component is repaired. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
15. Emissions from components which have been tagged by the facility operator for repair within 15 calendar days or which have been repaired and are awaiting re-inspection shall not be in violation of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

16. Any component leak shall be repaired to a leak-free condition or vented to a vapor control device within fifteen (15) calendar days of detection. The APCO may grant a ten (10) calendar day extension provided the operator demonstrates that necessary and sufficient actions are being taken to correct the leak within this time period. Any vapor control device used to comply with this condition shall be determined the control efficiency by EPA Method 25 at least annually. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. If the leaking component is an essential part of a critical process unit which cannot be immediately shut down for repairs, the operator shall 1) Minimize the leak within 15 calendar days; and 2) If the leak which has been minimized still exceeds the concentration allowed by this permit, the essential component shall be repaired to eliminate the leak during the next process unit turnaround, but in no case later than one year from the date of the original leak detection. A critical process unit is any process unit which would result in the automatic shutdown of other process units if it were shut down. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
18. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date of leak detection, and method of detection; 3) Date and emission level of recheck after leak is repaired; 4) Identification and location of essential parts of critical process units found leaking that cannot be repaired until the next process unit turnaround; and 5) Method used to minimize the leak from essential parts of critical process units which cannot be repaired until the next process unit turnaround. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
19. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 4623, 6.2.2], [Federally Enforceable Through Title V]
20. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 4623, 6.2.3], [Federally Enforceable Through Title V]
21. Control efficiency shall be determined by a comparison of controlled emissions to those emissions which would occur from a fixed or cone roof tank in the same product service without a vapor recovery system. Emissions shall be determined based on tank emission factors in EPA Publication AP-42, component counts for fugitive emissions sources, recognized emission factors for fugitive emission sources and the efficiency of any VOC destruction device. [District Rule 4623, 6.2.4], [Federally Enforceable Through Title V]
22. The efficiency of any VOC destruction device shall be measured by EPA Method 25, 25a, or 25b. [District Rule 4623, 6.2.5], [Federally Enforceable Through Title V]
23. The operator shall ensure that the vapor recovery system is functional and is operating as designed at all times. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
24. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
25. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
26. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]



**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-239-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

8,400 GALLON FIXED ROOF SHIPPING TANK #TK-25 CONNECTED TO VAPOR RECOVERY SYSTEM S-1246-235.

## **PERMIT UNIT REQUIREMENTS**

1. Tank vapors shall vent only to collection system and discharge only to TEOR operation S-1246-235. [District NSR Rule], [Federally Enforceable Through Title V]
2. Maximum emission rate of oxides of sulfur (SOx) as sulfur dioxide (SO2) shall not exceed 0.00 lb/hr. [District NSR Rule], [Federally Enforceable Through Title V]
3. Maximum emission rate of volatile organic compounds (VOC's) shall not exceed 0.00 lb/hr. [District NSR Rule], [Federally Enforceable Through Title V]
4. Maximum tank throughput shall not exceed 75 barrels/day. [District NSR Rule], [Federally Enforceable Through Title V]
5. Reid vapor pressure of liquids placed, stored or held in the tank shall not exceed 1.5 psia. [District NSR Rule], [Federally Enforceable Through Title V]
6. Maximum liquid storage temperature shall not exceed 180 degrees Fahrenheit. [District NSR Rule], [Federally Enforceable Through Title V]
7. Permittee shall maintain accurate records of daily throughput, Reid vapor pressure (sampled at least once per year), and storage temperature (monitored at least once per month). [District NSR Rule], [Federally Enforceable Through Title V]
8. Tank gauging, sampling devices, relief valves, manholes and etc. shall be equipped with resilient gas-tight (as defined in Rule 4623) gaskets and shall remain closed at all times except during gauging or sampling. [District Rule 4623], [Federally Enforceable Through Title V]
9. Tank seams, welds, joints, piping, valves and fittings shall be inspected and maintained in gas-tight condition pursuant to Rule 4623. [District Rule 4623], [Federally Enforceable Through Title V]
10. The tank shall be equipped with a vapor loss prevention system capable of collecting all VOC emissions and preventing their emissions to the atmosphere at an efficiency of at least 99% by weight. [District Rule 4623, 5.3.1], [Federally Enforceable Through Title V]
11. Any component leak shall be repaired to a leak-free condition or vented to a flare satisfying the requirements of 40 CFR 60.18 or to a vapor control device that is at least 95 percent efficient as measured by EPA Method 25 within fifteen (15) calendar days of detection. The APCO may grant a ten (10) calendar day extension provided the operator demonstrates that necessary and sufficient actions are being taken to correct the leak within this time period. Any vapor control device, other than a flare, used to comply with this condition shall demonstrate at least 95% control efficiency as measured by EPA Method 25 at least annually. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
12. All piping, fittings, and valves shall be inspected annually by the facility operator in accordance with EPA Method 21, with the instrument calibrated with methane, to ensure compliance with the provisions of this permit. If any of the tank components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If no tank components are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired at the next process unit turnaround (the scheduled shutdown of a unit for maintenance and repair work). [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. The facility operator, upon detection of a leaking component, shall affix to that component a weatherproof readily visible tag bearing the date on which the leak is detected. The tag shall remain in place until the leaking component is repaired, reinspected and found to be in compliance with the requirements of this rule. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
14. An operator shall reinspect a component for leaks within thirty working days after the date on which the component is repaired. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
15. Emissions from components which have been tagged by the facility operator for repair within 15 calendar days or which have been repaired and are awaiting re-inspection shall not be in violation of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

16. Any component leak shall be repaired to a leak-free condition or vented to a vapor control device within fifteen (15) calendar days of detection. The APCO may grant a ten (10) calendar day extension provided the operator demonstrates that necessary and sufficient actions are being taken to correct the leak within this time period. Any vapor control device used to comply with this condition shall be determined the control efficiency by EPA Method 25 at least annually. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. If the leaking component is an essential part of a critical process unit which cannot be immediately shut down for repairs, the operator shall 1) Minimize the leak within 15 calendar days; and 2) If the leak which has been minimized still exceeds the concentration allowed by this permit, the essential component shall be repaired to eliminate the leak during the next process unit turnaround, but in no case later than one year from the date of the original leak detection. A critical process unit is any process unit which would result in the automatic shutdown of other process units if it were shut down. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
18. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date of leak detection, and method of detection; 3) Date and emission level of recheck after leak is repaired; 4) Identification and location of essential parts of critical process units found leaking that cannot be repaired until the next process unit turnaround; and 5) Method used to minimize the leak from essential parts of critical process units which cannot be repaired until the next process unit turnaround. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
19. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 4623, 6.2.2], [Federally Enforceable Through Title V]
20. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 4623, 6.2.3], [Federally Enforceable Through Title V]
21. Control efficiency shall be determined by a comparison of controlled emissions to those emissions which would occur from a fixed or cone roof tank in the same product service without a vapor recovery system. Emissions shall be determined based on tank emission factors in EPA Publication AP-42, component counts for fugitive emissions sources, recognized emission factors for fugitive emission sources and the efficiency of any VOC destruction device. [District Rule 4623, 6.2.4], [Federally Enforceable Through Title V]
22. The efficiency of any VOC destruction device shall be measured by EPA Method 25, 25a, or 25b. [District Rule 4623, 6.2.5], [Federally Enforceable Through Title V]
23. The operator shall ensure that the vapor recovery system is functional and is operating as designed at all times. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
24. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
25. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
26. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-240-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

8,400 GALLON FIXED ROOF SHIPPING TANK #TK-26 CONNECTED TO VAPOR RECOVERY SYSTEM S-1246-235.

## **PERMIT UNIT REQUIREMENTS**

1. Tank vapors shall vent only to collection system and discharge only to TEOR operation S-1246-235. [District NSR Rule], [Federally Enforceable Through Title V]
2. Maximum emission rate of oxides of sulfur (SOx) as sulfur dioxide (SO2) shall not exceed 0.00 lb/hr. [District NSR Rule], [Federally Enforceable Through Title V]
3. Maximum emission rate of volatile organic compounds (VOC's) shall not exceed 0.00 lb/hr. [District NSR Rule], [Federally Enforceable Through Title V]
4. Maximum tank throughput shall not exceed 75 barrels/day. [District NSR Rule], [Federally Enforceable Through Title V]
5. Reid vapor pressure of liquids placed, stored or held in the tank shall not exceed 1.5 psia. [District NSR Rule], [Federally Enforceable Through Title V]
6. Maximum liquid storage temperature shall not exceed 180 degrees Fahrenheit. [District NSR Rule], [Federally Enforceable Through Title V]
7. Permittee shall maintain accurate records of daily throughput, Reid vapor pressure (sampled at least once per year), and storage temperature (monitored at least once per month). [District NSR Rule], [Federally Enforceable Through Title V]
8. Tank gauging, sampling devices, relief valves, manholes and etc. shall be equipped with resilient gas-tight (as defined in Rule 4623) gaskets and shall remain closed at all times except during gauging or sampling. [District Rule 4623], [Federally Enforceable Through Title V]
9. Tank seams, welds, joints, piping, valves and fittings shall be inspected and maintained in gas-tight condition pursuant to Rule 4623. [District Rule 4623], [Federally Enforceable Through Title V]
10. The tank shall be equipped with a vapor loss prevention system capable of collecting all VOC emissions and preventing their emissions to the atmosphere at an efficiency of at least 99% by weight. [District Rule 4623, 5.3.1], [Federally Enforceable Through Title V]
11. Any component leak shall be repaired to a leak-free condition or vented to a flare satisfying the requirements of 40 CFR 60.18 or to a vapor control device that is at least 95 percent efficient as measured by EPA Method 25 within fifteen (15) calendar days of detection. The APCO may grant a ten (10) calendar day extension provided the operator demonstrates that necessary and sufficient actions are being taken to correct the leak within this time period. Any vapor control device, other than a flare, used to comply with this condition shall demonstrate at least 95% control efficiency as measured by EPA Method 25 at least annually. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
12. All piping, fittings, and valves shall be inspected annually by the facility operator in accordance with EPA Method 21, with the instrument calibrated with methane, to ensure compliance with the provisions of this permit. If any of the tank components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If no tank components are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired at the next process unit turnaround (the scheduled shutdown of a unit for maintenance and repair work). [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. The facility operator, upon detection of a leaking component, shall affix to that component a weatherproof readily visible tag bearing the date on which the leak is detected. The tag shall remain in place until the leaking component is repaired, reinspected and found to be in compliance with the requirements of this rule. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
14. An operator shall reinspect a component for leaks within thirty working days after the date on which the component is repaired. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
15. Emissions from components which have been tagged by the facility operator for repair within 15 calendar days or which have been repaired and are awaiting re-inspection shall not be in violation of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

16. Any component leak shall be repaired to a leak-free condition or vented to a vapor control device within fifteen (15) calendar days of detection. The APCO may grant a ten (10) calendar day extension provided the operator demonstrates that necessary and sufficient actions are being taken to correct the leak within this time period. Any vapor control device used to comply with this condition shall be determined the control efficiency by EPA Method 25 at least annually. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. If the leaking component is an essential part of a critical process unit which cannot be immediately shut down for repairs, the operator shall 1) Minimize the leak within 15 calendar days; and 2) If the leak which has been minimized still exceeds the concentration allowed by this permit, the essential component shall be repaired to eliminate the leak during the next process unit turnaround, but in no case later than one year from the date of the original leak detection. A critical process unit is any process unit which would result in the automatic shutdown of other process units if it were shut down. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
18. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date of leak detection, and method of detection; 3) Date and emission level of recheck after leak is repaired; 4) Identification and location of essential parts of critical process units found leaking that cannot be repaired until the next process unit turnaround; and 5) Method used to minimize the leak from essential parts of critical process units which cannot be repaired until the next process unit turnaround. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
19. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 4623, 6.2.2], [Federally Enforceable Through Title V]
20. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 4623, 6.2.3], [Federally Enforceable Through Title V]
21. Control efficiency shall be determined by a comparison of controlled emissions to those emissions which would occur from a fixed or cone roof tank in the same product service without a vapor recovery system. Emissions shall be determined based on tank emission factors in EPA Publication AP-42, component counts for fugitive emissions sources, recognized emission factors for fugitive emission sources and the efficiency of any VOC destruction device. [District Rule 4623, 6.2.4], [Federally Enforceable Through Title V]
22. The efficiency of any VOC destruction device shall be measured by EPA Method 25, 25a, or 25b. [District Rule 4623, 6.2.5], [Federally Enforceable Through Title V]
23. The operator shall ensure that the vapor recovery system is functional and is operating as designed at all times. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
24. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
25. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
26. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-241-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

42,000 GALLON FIXED ROOF CRUDE OIL STORAGE TANK WITH PRESSURE/VACUUM RELIEF HATCH, ASSOCIATED VALVE, PUMPS AND PIPING

## PERMIT UNIT REQUIREMENTS

1. The true vapor pressure (TVP) of liquids placed, stored or held in the tank shall not exceed 1.40 psia. [District NSR Rule]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of tank throughput, types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. Tank liquid throughput shall not exceed 10,000 bbl/day without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
7. Tank roof appurtenances shall be maintained gas-tight (as defined by rule 4623). [District NSR Rule], [Federally Enforceable Through Title V]
8. Tank PV vent shall not vent unless pressure exceeds 2.0 oz./sq. in. [District NSR Rule], [Federally Enforceable Through Title V]
9. The tank PV hatch shall be set to within 10% of the maximum allowable working pressure of the tank. [District NSR Rule], [Federally Enforceable Through Title V]
10. The pressure/vacuum vent shall be inspected annually and shall be maintained in a good operating condition at all time. A record of an inspection shall be kept, maintained and made available to the District upon request. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
11. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
12. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-242-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

8,400 GALLON FIXED ROOF SHIPPING TANK #TK-29 CONNECTED TO VAPOR RECOVERY SYSTEM S-1246-235.

## **PERMIT UNIT REQUIREMENTS**

1. Tank vapors shall vent only to collection system and discharge only to TEOR operation S-1246-235. [District NSR Rule], [Federally Enforceable Through Title V]
2. Maximum emission rate of oxides of sulfur (SOx) as sulfur dioxide (SO2) shall not exceed 0.00 lb/hr. [District NSR Rule], [Federally Enforceable Through Title V]
3. Maximum emission rate of volatile organic compounds (VOC's) shall not exceed 0.00 lb/hr. [District NSR Rule], [Federally Enforceable Through Title V]
4. Maximum tank throughput shall not exceed 200 barrels/day. [District NSR Rule], [Federally Enforceable Through Title V]
5. Reid vapor pressure of liquids placed, stored or held in the tank shall not exceed 1.5 psia. [District NSR Rule], [Federally Enforceable Through Title V]
6. Maximum liquid storage temperature shall not exceed 180 degrees Fahrenheit. [District NSR Rule], [Federally Enforceable Through Title V]
7. Permittee shall maintain accurate records of daily throughput, Reid vapor pressure (sampled at least once per year), and storage temperature (monitored at least once per month). [District NSR Rule], [Federally Enforceable Through Title V]
8. Tank gauging, sampling devices, relief valves, manholes and etc. shall be equipped with resilient gas-tight (as defined in Rule 4623) gaskets and shall remain closed at all times except during gauging or sampling. [District Rule 4623], [Federally Enforceable Through Title V]
9. Tank seams, welds, joints, piping, valves and fittings shall be inspected and maintained in gas-tight condition pursuant to Rule 4623. [District Rule 4623], [Federally Enforceable Through Title V]
10. The tank shall be equipped with a vapor loss prevention system capable of collecting all VOC emissions and preventing their emissions to the atmosphere at an efficiency of at least 99% by weight. [District Rule 4623, 5.3.1], [Federally Enforceable Through Title V]
11. Any component leak shall be repaired to a leak-free condition or vented to a flare satisfying the requirements of 40 CFR 60.18 or to a vapor control device that is at least 95 percent efficient as measured by EPA Method 25 within fifteen (15) calendar days of detection. The APCO may grant a ten (10) calendar day extension provided the operator demonstrates that necessary and sufficient actions are being taken to correct the leak within this time period. Any vapor control device, other than a flare, used to comply with this condition shall demonstrate at least 95% control efficiency as measured by EPA Method 25 at least annually. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
12. All piping, fittings, and valves shall be inspected annually by the facility operator in accordance with EPA Method 21, with the instrument calibrated with methane, to ensure compliance with the provisions of this permit. If any of the tank components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If no tank components are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired at the next process unit turnaround (the scheduled shutdown of a unit for maintenance and repair work). [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. The facility operator, upon detection of a leaking component, shall affix to that component a weatherproof readily visible tag bearing the date on which the leak is detected. The tag shall remain in place until the leaking component is repaired, reinspected and found to be in compliance with the requirements of this rule. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
14. An operator shall reinspect a component for leaks within thirty working days after the date on which the component is repaired. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
15. Emissions from components which have been tagged by the facility operator for repair within 15 calendar days or which have been repaired and are awaiting re-inspection shall not be in violation of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

16. Any component leak shall be repaired to a leak-free condition or vented to a vapor control device within fifteen (15) calendar days of detection. The APCO may grant a ten (10) calendar day extension provided the operator demonstrates that necessary and sufficient actions are being taken to correct the leak within this time period. Any vapor control device used to comply with this condition shall be determined the control efficiency by EPA Method 25 at least annually. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. If the leaking component is an essential part of a critical process unit which cannot be immediately shut down for repairs, the operator shall 1) Minimize the leak within 15 calendar days; and 2) If the leak which has been minimized still exceeds the concentration allowed by this permit, the essential component shall be repaired to eliminate the leak during the next process unit turnaround, but in no case later than one year from the date of the original leak detection. A critical process unit is any process unit which would result in the automatic shutdown of other process units if it were shut down. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
18. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date of leak detection, and method of detection; 3) Date and emission level of recheck after leak is repaired; 4) Identification and location of essential parts of critical process units found leaking that cannot be repaired until the next process unit turnaround; and 5) Method used to minimize the leak from essential parts of critical process units which cannot be repaired until the next process unit turnaround. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
19. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 4623, 6.2.2], [Federally Enforceable Through Title V]
20. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 4623, 6.2.3], [Federally Enforceable Through Title V]
21. Control efficiency shall be determined by a comparison of controlled emissions to those emissions which would occur from a fixed or cone roof tank in the same product service without a vapor recovery system. Emissions shall be determined based on tank emission factors in EPA Publication AP-42, component counts for fugitive emissions sources, recognized emission factors for fugitive emission sources and the efficiency of any VOC destruction device. [District Rule 4623, 6.2.4], [Federally Enforceable Through Title V]
22. The efficiency of any VOC destruction device shall be measured by EPA Method 25, 25a, or 25b. [District Rule 4623, 6.2.5], [Federally Enforceable Through Title V]
23. The operator shall ensure that the vapor recovery system is functional and is operating as designed at all times. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
24. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
25. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
26. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-243-0

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

ONE 5000 GALLON UNDERGROUND STORAGE TANK SERVED BY PHASE I VAPOR RECOVERY SYSTEM (G-70-97)  
AND ONE NOZZLE SERVED BY PHASE II VAPOR RECOVERY SYSTEM (G-70-52)

## **PERMIT UNIT REQUIREMENTS**

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1. All dispensers shall be equipped with high retractor or high-hang hose configurations. [District Rule 4622]
2. At least 95% by weight of all gasoline vapors displaced during the filling of storage tanks and the refueling of vehicles shall be prevented from entering the atmosphere. [District Rule 4622]
3. All vapor line connections, fittings, lines and caps, and seals between nozzles and vehicles shall be vapor tight. [District Rule 4622]
4. Pressure/Vacuum relief valves shall be maintained operational at all times. [District Rule 4622]
5. The vapor recovery systems and their components shall be installed, operated, and maintained in accordance with the State certification requirements. [District Rules 4621 and 4622]
6. Prior to December 31, 1998, and at least once every five years thereafter, each vapor recovery system shall be tested to determine proper installation and function using District approved test methods. [ ]
7. The District shall be notified by the permittee 15 days prior to each test. The test results shall be submitted to the District no later than 30 days after each test. [District Rule 1081]



**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-244-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

67,200 GALLON FIXED ROOF PETROLEUM WASH AND SHIPPING TANK.

## **PERMIT UNIT REQUIREMENTS**

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-245-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

67,200 GALLON FIXED ROOF PETROLEUM WASH AND SHIPPING TANK.

## PERMIT UNIT REQUIREMENTS

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature or tank shall be subject to the requirements of Rule 4623. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-246-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

2,000 BARREL FIXED ROOF ABOVE GROUND STORAGE TANK WITH P/V VALVE.

## **PERMIT UNIT REQUIREMENTS**

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1. The true vapor pressure (TVP) of liquids stored in the tank shall not exceed 1.5 psia at storage temperature. [District Rule 4623, 2.0 and District Rule 2520, 9.1], [Federally Enforceable Through Title V]
2. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F, true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. The operator shall keep accurate records of types, storage temperature, and TVP of liquids stored to verify continued exemption from District Rule 4623 (as amended December 17, 1992). [District Rule 2520, 9.1], [Federally Enforceable Through Title V]
6. The tank shall be equipped with a fixed roof with no holes or openings. [District NSR Rule], [Federally Enforceable Through Title V]
7. The tank PV valve shall be set to within 10% of the maximum allowable working pressure of the tank. [District Rule 4623], [Federally Enforceable Through Title V]
8. Tank roof appurtenances shall be maintained leak free (less than 10,000 ppm methane above background when measured at a distance of one centimeter from the potential source with a portable hydrocarbon detection instrument). [District Rule 4623], [Federally Enforceable Through Title V]
9. The tank roof including PV valve shall be inspected annually and shall be maintained in a good operating condition at all time. A record of an inspection shall be kept, maintained and made available to the District upon request. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
10. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
11. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-247-0

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

8.4 MMBTU/HR STRUTHERS STEAM GENERATOR EQUIPPED WITH FUEL FLOW ANALYZER (CANCELLED BY PERMITTEE AT RENEWAL BILLING - TEG 2/24 98)

## **PERMIT UNIT REQUIREMENTS**

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1. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
2. Excess combustion air shall be maintained at no less than 15% unless continuous operation oxygen analyzer/controller is utilized. [ ]
3. Fuel oil sulfur content shall be maintained at no less than 1.2% by weight. [ ]
4. NOx (as NO2) emission rate shall not exceed 2.5 lbm/bbl of fuel. [ ]
5. Fuel flow rate shall not exceed 999 gal/day. [ ]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-248-0

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

12.6 MMBTU/HR STRUTHERS STEAM GENERATOR WITH FUEL FLOW ANALYZER (CANCELLED BY PERMITTEE AT RENEWAL BILLING - TEG 2/24 98)

## **PERMIT UNIT REQUIREMENTS**

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1. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
2. Excess combustion air shall be maintained at no less than 15% unless continuous operation oxygen analyzer/controller is utilized. [ ]
3. Fuel oil sulfur content shall be maintained at no less than 1.2% by weight. [ ]
4. NOx (as NO2) emission rate shall not exceed 2.5 lbm/bbl of fuel. [ ]
5. Fuel flow rate shall not exceed 999 gal/day. [ ]
6. Unit shall be equipped with thermal blanket. [ ]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-249-0

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

12.6 MMBTU/HR STRUTHERS STEAM GENERATOR (CANCELLED BY PERMITTEE AT RENEWAL BILLING - TEG 2/24/98)

## **PERMIT UNIT REQUIREMENTS**

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1. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
2. Excess combustion air shall be maintained at no less than 15% unless continuous operation oxygen analyzer/controller is utilized. [ ]
3. Fuel oil sulfur content shall be maintained at no less than 1.2% by weight. [ ]
4. NOx (as NO2) emission rate shall not exceed 2.5 lbm/bbl of fuel. [ ]
5. Fuel flow rate shall not exceed 999 gal/day. [ ]
6. Unit shall be equipped with thermal blanket. [ ]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-250-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

8.2 MW SOLAR MARS GSC 12000 NATURAL GAS FIRED GAS TURBINE ENGINE, UNFIRED HEAT RECOVERY STEAM GENERATOR COGENERATION SYSTEM WITH MAXIMUM HEAT INPUT RATING OF 96.7 MMBTU/HR.

**PERMIT UNIT REQUIREMENTS**

1. Gas turbine engine shall be equipped with selective catalytic reduction (SCR) system with ammonia injection. [District NSR Rule], [Federally Enforceable Through Title V]
2. Gas turbine engine shall be equipped with continuously recording fuel gas flow meter. [District NSR Rule], [Federally Enforceable Through Title V]
3. Records of NOx monitor output, daily ammonia consumption, and daily consumption of natural gas burned in the gas turbine shall be retained, and shall be made available for District inspection upon request. [District NSR Rule], [Federally Enforceable Through Title V]
4. Ammonia injection grid shall be equipped with operational flowmeter and pressure indicator. [District NSR Rule], [Federally Enforceable Through Title V]
5. Heat recovery steam generator shall be equipped with operational temperature indicator. [District NSR Rule], [Federally Enforceable Through Title V]
6. All steam produced by this source operation shall be used only in existing TEOR operations served by approved vapor control system. [District NSR Rule], [Federally Enforceable Through Title V]
7. Gas turbine engine shall not be operated unless selective catalytic reduction system is operating. [District NSR Rule], [Federally Enforceable Through Title V]
8. Emission rates shall not exceed the following: PM10: 2.6 lb/hour, SOx (as SO2): 0.03 lb/hour, NOx (as NO2): 8.0 lb/hour, VOC: 0.2 lb/hour, and CO: 1.2 lb/hour. [District NSR Rule], [Federally Enforceable Through Title V]
9. The emissions limits shall be determined annually by District witnessed sample collection by independent testing laboratory. [District NSR Rule], [Federally Enforceable Through Title V]
10. The results of the compliance test shall be submitted to the District within 60 days of the test. [District Rule 1081], [Federally Enforceable Through Title V]
11. The District shall be notified whenever the gas turbine is started up or shut down. [District NSR Rule], [Federally Enforceable Through Title V]
12. Unit shall be fired exclusively on PUC-quality natural gas which has a sulfur content of less than or equal to 0.017% by weight. [40 CFR 60.333(a) & (b); 60.332(a); Kern County Rule 407], [Federally Enforceable Through Title V]
13. Operator shall not discharge into the atmosphere combustion contaminants (PM) exceeding in concentration at the point of discharge, 0.1 gr/dscf. [District Rule 4201; Kern County Rule 404], [Federally Enforceable Through Title V]
14. NOx (as NO2) emissions shall not exceed 22 ppmv @15% O2. [40 CFR 60.332(a)(1) & 60.332(a)(2), District Rule 4703, 5.1.1, and District NSR Rule], [Federally Enforceable Through Title V]
15. Operator shall be required to conform to the compliance testing procedures described in District Rule 1081. [Kern County Rule 108.1 and District Rule 1081], [Federally Enforceable Through Title V]
16. If the turbine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the turbine shall be determined using ASTM method D 1072-80, D 3031-81, D 4084-82 or D 3246-81. [40 CFR 60.335(d)], [Federally Enforceable Through Title V]
17. If the turbine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [40 CFR 60.334(b)(2)], [Federally Enforceable Through Title V]
18. The HHV and LHV of the fuel shall be determined using ASTM D3588-91, ASTM 1826-88, or ASTM 1945-81. [40 CFR 60.332(a),(b) and District Rule 4703, 6.4.5], [Federally Enforceable Through Title V]

## Initial TV Permit

19. Nitrogen oxides (NOx) concentrations shall be determined using EPA Method 7E or 20, and oxygen (O2) concentrations shall be determined using EPA Method 3, 3A, or 20. [40 CFR 60.335(b) and District Rule 4703, 6.4], [Federally Enforceable Through Title V]
20. The operator shall provide source test information annually regarding the exhaust gas NOx concentration corrected to 15% O2 (dry). [40 CFR 60.332(a),(b) and District Rule 4703, 5.1], [Federally Enforceable Through Title V]
21. The operator shall provide source test information annually regarding the demonstrated percent efficiency (EFF) as defined in District Rule 4703, 5.1.1. [40 CFR 60.332(a),(b) and District Rule 4703, 5.1.1], [Federally Enforceable Through Title V]
22. Any gas turbine with an intermittently operated auxiliary burner shall demonstrate compliance with the auxiliary burner both on and off. [40 CFR 60.335(b) and District Rule 4703, 6.3.2], [Federally Enforceable Through Title V]
23. Results of continuous emissions monitoring must be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [Rule 108 (Kings, Fresno, Merced San Joaquin, Tulare, Kern, and Stanislaus) and Rule 109 (Madera); District Rule 1080, 7.2], [Federally Enforceable Through Title V]
24. Records shall be maintained and shall contain: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, any periods during which a continuous monitoring system or monitoring device is inoperative, maintenance of any CEM's that have been installed pursuant to District Rule 1080, and emission measurements. [Rule 108 (Kings, Fresno, Merced San Joaquin, Tulare, Kern, and Stanislaus) and Rule 109 (Madera); District Rule 1080, 7.3; 40 CFR 60.7 (b)], [Federally Enforceable Through Title V]
25. If the turbine is fired on PUC-regulated natural gas, then maintain on file copies of natural gas bills. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
26. The operator of a stationary gas turbine system shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.5.2], [Federally Enforceable Through Title V]
27. Results of continuous emission monitoring must be averaged in accordance with the requirements of 40 CFR 60.13. [40 CFR 60.334(a),(b),(c) and District Rule 4703, 5.0], [Federally Enforceable Through Title V]
28. Operator shall maintain a stationary gas turbine operating log that includes, on a daily basis the actual local start-up and stop time, length and reason for reduced load periods, total hours of operation and quantity of fuel used. [40 CFR 60.332(a),(b) and District Rule 4703, 6.2.4], [Federally Enforceable Through Title V]
29. The requirements of 40 CFR 72.6 (b) do not apply to this source because only non-Title IV sources can qualify to use the applicable template. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
30. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: 40 CFR 60.333 (a) and (b); 60.334(a),(b), and (c)(1); Rules 402 (Madera) and 404 (Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare, Merced); Rule 108.1 (Kings) and Rule 108 (in all seven remaining counties in the San Joaquin Valley); Rule 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern and Stanislaus), and 110 (Madera); SJVUAPCD Rule 4703, Section 6.2.2 and 1080, 7.3. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
31. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: SJVUAPCD Rule 4201, 1081 and 1080, Sections 6.5, 7.2, 8.0, 9.0, and 10.0; Rule 404 (Madera), 406 (Fresno), 407 (Kings, San Joaquin, Merced, Stanislaus, Tulare, and Kern); 40 CFR 60.332(c) and (d); 60.334(b) and (c)(2); 60.335(d). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
32. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: SJVUAPCD Rule 4703, sections 5.0, 5.1.1, 6.2.1, 6.2.4, 6.3, 6.4.1, 6.4.3, 6.4.5, and 6.4.6. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
33. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rule 404 (Merced); 40 CFR 60.332(a), (b); 60.335(a), (b), (c), and (e). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
34. Operator shall install, operate and maintain in calibration a system which continuously measures and records: control system operating parameters, elapsed time of operation, the exhaust gas NOx and O2 concentrations. [40 CFR 60.334(a),(b)], [Federally Enforceable Through Title V]
35. The continuous NOx monitoring system shall meet the performance specification requirements in 40 CFR 60, Appendix F, 40 CFR 51, Appendix P, and Part 60, Appendix B, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [Rule 108 (Kings, Fresno, Merced San Joaquin, Tulare, Kern, and Stanislaus) and Rule 109 (Madera) and District Rule 1080, 6.7], [Federally Enforceable Through Title V]
36. A violation of NOx emission standards indicated by the NOx CEM shall be reported by the operator to the APCO within 96 hours. [Rule 108 (Kings, Fresno, Merced San Joaquin, Tulare, Kern, and Stanislaus) and Rule 109 (Madera) and District Rule 1080, 9.0], [Federally Enforceable Through Title V]



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37. Operator shall submit a semiannual report listing any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8% by weight. [40 CFR 60.334(c)(2)], [Federally Enforceable Through Title V]
38. Operator shall notify the APCO no later than eight hours after the detection of a breakdown of the CEM. Operator shall inform the APCO of the intent to shut down the CEM at least 24 hours prior to the event. [Rule 108 (Kings, Fresno, Merced San Joaquin, Tulare, Kern, and Stanislaus) and Rule 109 (Madera) and District Rule 1080, 10.0], [Federally Enforceable Through Title V]
39. Operators of CEM's installed at the direction of the APCO shall submit a written report for each calendar quarter to the APCO. The report is due on the 30th day following the end of the calendar quarter and shall include: A. time intervals, data and magnitude of excess emissions, nature and cause of excess (if known), corrective actions taken and preventive measures adopted; B. averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard; C. applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; D. a negative declaration when no excess emissions occurred. [Rule 108 (Kings, Fresno, Merced San Joaquin, Tulare, Kern, and Stanislaus) and Rule 109 (Madera) and District Rule 1080, 8.0], [Federally Enforceable Through Title V]
40. Operator shall perform annual source testing for CO emissions using EPA Method 10 (or ARB Method 100), and VOC using EPA Method 18 or 25. Gaseous fired units shall test not less than once every 36 months, if compliance is shown for 2 consecutive years. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
41. Emissions for this unit shall be calculated using arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 forty-minute test runs for NO<sub>x</sub>, CO, and VOC. This mean shall be multiplied by the appropriate factor. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-251-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

8.2 MW SOLAR MARS GSC 12000 NATURAL GAS-FIRED GAS TURBINE ENGINE, UNFIRED HEAT RECOVERY SYSTEM GENERATOR COGENERATION SYSTEM WITH MAXIMUM HEAT INPUT RATING OF 96.7 MMBTU/HR

**PERMIT UNIT REQUIREMENTS**

1. Gas turbine engine shall be equipped with selective catalytic reduction (SCR) system with ammonia injection. [District NSR Rule], [Federally Enforceable Through Title V]
2. Gas turbine engine shall be equipped with continuously recording fuel gas flow meter. [District NSR Rule], [Federally Enforceable Through Title V]
3. Records of NOx monitor output, daily ammonia consumption, and daily consumption of natural gas burned in the gas turbine shall be retained, and shall be made available for District inspection upon request. [District NSR Rule], [Federally Enforceable Through Title V]
4. Ammonia injection grid shall be equipped with operational flowmeter and pressure indicator. [District NSR Rule], [Federally Enforceable Through Title V]
5. Heat recovery steam generator shall be equipped with operational temperature indicator. [District NSR Rule], [Federally Enforceable Through Title V]
6. All steam produced by this source operation shall be used only in existing TEOR operations served by approved vapor control system. [District NSR Rule], [Federally Enforceable Through Title V]
7. Gas turbine engine shall not be operated unless selective catalytic reduction system is operating. [District NSR Rule], [Federally Enforceable Through Title V]
8. Emission rates shall not exceed the following: PM10: 2.6 lb/hour, SOx (as SO2): 0.03 lb/hour, NOx (as NO2): 8.0 lb/hour, VOC: 0.2 lb/hour, and CO: 1.2 lb/hour. [District NSR Rule], [Federally Enforceable Through Title V]
9. The emissions limits shall be determined annually by District witnessed sample collection by independent testing laboratory. [District NSR Rule], [Federally Enforceable Through Title V]
10. The results of the compliance test shall be submitted to the District within 60 days of the test. [District Rule 1081], [Federally Enforceable Through Title V]
11. The District shall be notified whenever the gas turbine is started up or shut down. [District NSR Rule], [Federally Enforceable Through Title V]
12. Unit shall be fired exclusively on PUC-quality natural gas which has a sulfur content of less than or equal to 0.017% by weight. [40 CFR 60.333(a) & (b); 60.332(a); Kern County Rule 407], [Federally Enforceable Through Title V]
13. Operator shall not discharge into the atmosphere combustion contaminants (PM) exceeding in concentration at the point of discharge, 0.1 gr/dscf. [District Rule 4201; Kern County Rule 404], [Federally Enforceable Through Title V]
14. NOx (as NO2) emissions shall not exceed 22 ppmv @15% O2. [40 CFR 60.332(a)(1) & 60.332(a)(2), District Rule 4703, 5.1.1, and District NSR Rule], [Federally Enforceable Through Title V]
15. Operator shall be required to conform to the compliance testing procedures described in District Rule 1081. [Kern County Rule 108.1 and District Rule 1081], [Federally Enforceable Through Title V]
16. If the turbine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the turbine shall be determined using ASTM method D 1072-80, D 3031-81, D 4084-82 or D 3246-81. [40 CFR 60.335(d)], [Federally Enforceable Through Title V]
17. If the turbine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [40 CFR 60.334(b)(2)], [Federally Enforceable Through Title V]
18. The HHV and LHV of the fuel shall be determined using ASTM D3588-91, ASTM 1826-88, or ASTM 1945-81. [40 CFR 60.332(a),(b) and District Rule 4703, 6.4.5], [Federally Enforceable Through Title V]

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19. Nitrogen oxides (NOx) concentrations shall be determined using EPA Method 7E or 20, and oxygen (O2) concentrations shall be determined using EPA Method 3, 3A, or 20. [40 CFR 60.335(b) and District Rule 4703, 6.4], [Federally Enforceable Through Title V]
20. The operator shall provide source test information annually regarding the exhaust gas NOx concentration corrected to 15% O2 (dry). [40 CFR 60.332(a),(b) and District Rule 4703, 5.1], [Federally Enforceable Through Title V]
21. The operator shall provide source test information annually regarding the demonstrated percent efficiency (EFF) as defined in District Rule 4703, 5.1.1. [40 CFR 60.332(a),(b) and District Rule 4703, 5.1.1], [Federally Enforceable Through Title V]
22. Any gas turbine with an intermittently operated auxiliary burner shall demonstrate compliance with the auxiliary burner both on and off. [40 CFR 60.335(b) and District Rule 4703, 6.3.2], [Federally Enforceable Through Title V]
23. Results of continuous emissions monitoring must be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [Rule 108 (Kings, Fresno, Merced San Joaquin, Tulare, Kern, and Stanislaus) and Rule 109 (Madera); District Rule 1080, 7.2], [Federally Enforceable Through Title V]
24. Records shall be maintained and shall contain: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, any periods during which a continuous monitoring system or monitoring device is inoperative, maintenance of any CEM's that have been installed pursuant to District Rule 1080, and emission measurements. [Rule 108 (Kings, Fresno, Merced San Joaquin, Tulare, Kern, and Stanislaus) and Rule 109 (Madera); District Rule 1080, 7.3; 40 CFR 60.7 (b)], [Federally Enforceable Through Title V]
25. If the turbine is fired on PUC-regulated natural gas, then maintain on file copies of natural gas bills. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
26. The operator of a stationary gas turbine system shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.5.2], [Federally Enforceable Through Title V]
27. Results of continuous emission monitoring must be averaged in accordance with the requirements of 40 CFR 60.13. [40 CFR 60.334(a),(b),(c) and District Rule 4703, 5.0], [Federally Enforceable Through Title V]
28. Operator shall maintain a stationary gas turbine operating log that includes, on a daily basis the actual local start-up and stop time, length and reason for reduced load periods, total hours of operation and quantity of fuel used. [40 CFR 60.332(a),(b) and District Rule 4703, 6.2.4], [Federally Enforceable Through Title V]
29. The requirements of 40 CFR 72.6 (b) do not apply to this source because only non-Title IV sources can qualify to use the applicable template. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
30. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: 40 CFR 60.333 (a) and (b); 60.334(a),(b), and (c)(1); Rules 402 (Madera) and 404 (Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare, Merced); Rule 108.1 (Kings) and Rule 108 (in all seven remaining counties in the San Joaquin Valley); Rule 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern and Stanislaus), and 110 (Madera); SJVUAPCD Rule 4703, Section 6.2.2 and 1080, 7.3. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
31. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: SJVUAPCD Rule 4201, 1081 and 1080, Sections 6.5, 7.2, 8.0, 9.0, and 10.0; Rule 404 (Madera), 406 (Fresno), 407 (Kings, San Joaquin, Merced, Stanislaus, Tulare, and Kern); 40 CFR 60.332(c) and (d); 60.334(b) and (c)(2); 60.335(d). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
32. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: SJVUAPCD Rule 4703, sections 5.0, 5.1.1, 6.2.1, 6.2.4, 6.3, 6.4.1, 6.4.3, 6.4.5, and 6.4.6. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
33. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rule 404 (Merced); 40 CFR 60.332(a), (b); 60.335(a), (b), (c), and (e). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
34. Operator shall install, operate and maintain in calibration a system which continuously measures and records: control system operating parameters, elapsed time of operation, the exhaust gas NOx and O2 concentrations. [40 CFR 60.334(a),(b)], [Federally Enforceable Through Title V]
35. The continuous NOx monitoring system shall meet the performance specification requirements in 40 CFR 60, Appendix F, 40 CFR 51, Appendix P, and Part 60, Appendix B, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [Rule 108 (Kings, Fresno, Merced San Joaquin, Tulare, Kern, and Stanislaus) and Rule 109 (Madera) and District Rule 1080, 6.7], [Federally Enforceable Through Title V]
36. A violation of NOx emission standards indicated by the NOx CEM shall be reported by the operator to the APCO within 96 hours. [Rule 108 (Kings, Fresno, Merced San Joaquin, Tulare, Kern, and Stanislaus) and Rule 109 (Madera) and District Rule 1080, 9.0], [Federally Enforceable Through Title V]

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37. Operator shall submit a semiannual report listing any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8% by weight. [40 CFR 60.334(c)(2)], [Federally Enforceable Through Title V]
38. Operator shall notify the APCO no later than eight hours after the detection of a breakdown of the CEM. Operator shall inform the APCO of the intent to shut down the CEM at least 24 hours prior to the event. [Rule 108 (Kings, Fresno, Merced San Joaquin, Tulare, Kern, and Stanislaus) and Rule 109 (Madera) and District Rule 1080, 10.0], [Federally Enforceable Through Title V]
39. Operators of CEM's installed at the direction of the APCO shall submit a written report for each calendar quarter to the APCO. The report is due on the 30th day following the end of the calendar quarter and shall include: A. time intervals, data and magnitude of excess emissions, nature and cause of excess (if known), corrective actions taken and preventive measures adopted; B. averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard; C. applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; D. a negative declaration when no excess emissions occurred. [Rule 108 (Kings, Fresno, Merced San Joaquin, Tulare, Kern, and Stanislaus) and Rule 109 (Madera) and District Rule 1080, 8.0], [Federally Enforceable Through Title V]
40. Operator shall perform annual source testing for CO emissions using EPA Method 10 (or ARB Method 100), and VOC using EPA Method 18 or 25. Gaseous fired units shall test not less than once every 36 months, if compliance is shown for 2 consecutive years. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
41. Emissions for this unit shall be calculated using arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 forty-minute test runs for NO<sub>x</sub>, CO, and VOC. This mean shall be multiplied by the appropriate factor. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-252-3

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

62.5 MMBTU/HR NATURAL GAS/VAPOR RECOVERY GAS-FIRED STRUTHERS STEAM GENERATOR (#67) WITH NORTH AMERICAN, MODEL 6131-G, BURNER ASSEMBLY, FGR, AND OXYGEN ANALYZER/CONTROLLER.

## **PERMIT UNIT REQUIREMENTS**

1. All wells producing from strata steamed by this unit shall be connected to a District-approved emissions control system, have District-approved closed casing vents or be District-approved uncontrolled cyclic wells. [District Rule 4401], [Federally Enforceable Through Title V]
2. Only three of the following units shall be operated at any given time: S-1246-252, -253, -254, & -258. [District NSR Rule], [Federally Enforceable Through Title V]
3. Only fuel gas, vapors from tank battery vapor control system S-1246-258 and waste gas from TEOR system S-1246-268 may be incinerated in this steam generator. [District NSR Rule], [Federally Enforceable Through Title V]
4. Natural gas fuel sulfur content shall not exceed 6 ppm (utility grade). [District NSR Rule], [Federally Enforceable Through Title V]
5. Sufficient reference gas shall be available to allow for calibration of oxygen analyzer unit at all times. [District NSR Rule], [Federally Enforceable Through Title V]
6. In case of failure of oxygen analyzer/controller, inlet air damper shall automatically return to "neutral" position. [District NSR Rule], [Federally Enforceable Through Title V]
7. If steam generator is inoperative, non-condensable vapors shall not vent to atmosphere. [District NSR Rule], [Federally Enforceable Through Title V]
8. Sulfur Compound emission shall not exceed 30.0 lb/day of SO<sub>2</sub>. [District NSR Rule], [Federally Enforceable Through Title V]
9. Permittee shall keep accurate daily records of fuel gas H<sub>2</sub>S concentration and flowrate (scfd) and such records shall be made readily available to District staff at time of annual PTO renewal inspection. [District Rule 1070], [Federally Enforceable Through Title V]
10. Emission rates shall not exceed any of the following: PM<sub>10</sub>: 0.005 lb/MMBtu, NO<sub>x</sub> (as NO<sub>2</sub>): 0.036 lb/MMBtu, VOC: 0.003 lb/MMBtu; or CO: 46.6 ppmv @ 3% O<sub>2</sub>. [District NSR Rule], [Federally Enforceable Through Title V]
11. Source testing to measure NO<sub>x</sub> and CO emissions shall be conducted not less than once every 36 months if compliance is demonstrated on two consecutive annual tests. [District Rules 4305, 4351, and 2520, 9.4.2], [Federally Enforceable Through Title V]
12. If permittee fails any compliance demonstration for NO<sub>x</sub> and CO emission limits when testing not less than once every 36 months, compliance with NO<sub>x</sub> and CO emission limits shall be demonstrated not less than once every 12 months. [District Rules 4305, 4351, and 2520, 9.4.2], [Federally Enforceable Through Title V]
13. Source test results from an individual unit that is identical to this unit, in terms of rated capacity, operational conditions, fuel used, and control method, as approved by the APCO, will satisfy the NO<sub>x</sub> and CO source testing requirement. [District Rules 2520, 9.4.2], [Federally Enforceable Through Title V]
14. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081], [Federally Enforceable Through Title V]
15. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081], [Federally Enforceable Through Title V]
16. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081], [Federally Enforceable Through Title V]
17. The following test methods shall be used: NO<sub>x</sub> (ppmv) - EPA Method 7E or ARB Method 100, NO<sub>x</sub> (lb/MMBtu) - EPA Method 19, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and fuel gas sulfur content - ASTM D3246 or double GC for H<sub>2</sub>S and mercaptans. [District Rules 1081, 4305, and 4351], [Federally Enforceable Through Title V]
18. The sample collection shall be conducted under conditions (fuel quality, firing rate, waste gas incineration, air fuel ratio, etc.) expected to result in emissions representative of normal operation. [District Rule 1081], [Federally Enforceable Through Title V]

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19. The operational conditions during compliance testing may be imposed as permit requirements. [District Rule 2080], [Federally Enforceable Through Title V]
20. Operation shall be equipped with flue gas recirculation valve setting indicator. [District NSR Rules and District Rule 4305], [Federally Enforceable Through Title V]
21. The acceptable FGR valve settings shall be established by testing emissions from this unit or other representative units as approved by the District. The acceptable settings shall be the minimum FGR recirculation rate setting with which compliance with applicable NOx and CO emissions limits have been demonstrated through source testing at a similar firing rate. [District Rule 4305 and District NSR Rule], [Federally Enforceable Through Title V]
22. The flue gas recirculation valve shall be inspected at least on a weekly basis. [District Rule 4305 and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
23. If the FGR valve setting is not within the acceptable setting, the permittee shall notify the District and return the valve setting to within the acceptable range within one (1) hour after detection. If the FGR valve setting is not corrected within (1) hour, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emissions limits at the observed FGR valve settings. [District Rule 4305 and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
24. The permittee shall maintain records of the date and time of FGR valve setting observations and the observed setting. The records shall also include a description of any corrective action taken to maintain FGR valve setting at or above the minimum acceptable setting. These records shall be retained at the facility and shall be made available for District inspection upon request. [District Rule 4305 and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
25. Particulate matter emissions shall not exceed 0.1 grain/dscf at operating conditions, nor 0.1 grain/dscf calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rule 4201 and District Rule 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
26. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume, 2000 ppmv, as measured on a dry basis over a 15 minute period. [Kern County Rules 407, District Rule 4801, and District Rule 4301, 5.2.1], [Federally Enforceable Through Title V]
27. Nitrogen oxide (NOx) emissions shall not exceed 140 lb/hr. [District Rule 4301, 5.2.2], [Federally Enforceable Through Title V]
28. The operator shall do one of the following: fire the unit exclusively on the PUC-regulated natural gas; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 6 ppm. [District Rule 4801 and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
29. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
30. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
31. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (amended December 16, 1993), of 3 forty-minute test runs for NOx and CO. This mean shall be multiplied by the appropriate factor. [District Rule 1081 and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
32. The following conditions must be met for representative units to be used to test for NOx and CO emissions for a group of units: 1) all units are initially source tested and emissions from each unit in group are less than 90% of permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of heat input, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
33. All units in a group for which representative units are annually source tested for NOx and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
34. An operating log shall be maintained for each unit of the group. The log shall include, on a monthly basis, the total hours of operation, type and quantity of fuel used, and preventative and corrective maintenance and modifications performed. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
35. The number of representative units source tested for NOx and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated such that in three years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
36. Should any of the representative units exceed the required emission limits of this permit, each of the unit in the group shall conduct emissions testing within 90 days of the failed test. (This requirement shall not supersede a more stringent NSR or PSD permit testing requirement.) [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

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37. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVAPCD Rule 4201 (Amended December 17, 1992), Rule 4801 (amended December 17, 1992), and Rule 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
38. Compliance with permit conditions in the Title V permit shall be deemed compliance with the out dated Kern County Rules: 108.1, 404, and 407.2. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
39. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c through 60.48c do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-253-3

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

62.5 MMBTU/HR NATURAL GAS/VAPOR RECOVERY GAS-FIRED STRUTHERS STEAM GENERATOR (#68) WITH NORTH AMERICAN, MODEL 6131-G, BURNER ASSEMBLY, FGR, AND OXYGEN ANALYZER/CONTROLLER.

## **PERMIT UNIT REQUIREMENTS**

1. All wells producing from strata steamed by this unit shall be connected to a District-approved emissions control system, have District-approved closed casing vents or be District-approved uncontrolled cyclic wells. [District Rule 4401], [Federally Enforceable Through Title V]
2. Only three of the following units shall be operated at any given time: S-1246-252, -253, -254, & -258. [District NSR Rule], [Federally Enforceable Through Title V]
3. Only fuel gas, vapors from tank battery vapor control system S-1246-258 and waste gas from TEOR system S-1246-268 may be incinerated in this steam generator. [District NSR Rule], [Federally Enforceable Through Title V]
4. Natural gas fuel sulfur content shall not exceed 6 ppm (utility grade). [District NSR Rule], [Federally Enforceable Through Title V]
5. Sufficient reference gas shall be available to allow for calibration of oxygen analyzer unit at all times. [District NSR Rule], [Federally Enforceable Through Title V]
6. In case of failure of oxygen analyzer/controller, inlet air damper shall automatically return to "neutral" position. [District NSR Rule], [Federally Enforceable Through Title V]
7. If steam generator is inoperative, non-condensable vapors shall not vent to atmosphere. [District NSR Rule], [Federally Enforceable Through Title V]
8. Sulfur Compound emission shall not exceed 30.0 lb/day of SO<sub>2</sub>. [District NSR Rule], [Federally Enforceable Through Title V]
9. Permittee shall keep accurate daily records of fuel gas H<sub>2</sub>S concentration and flowrate (scfd) and such records shall be made readily available to District staff at time of annual PTO renewal inspection. [District Rule 1070], [Federally Enforceable Through Title V]
10. Emission rates shall not exceed any of the following: PM<sub>10</sub>: 0.005 lb/MMBtu, NO<sub>x</sub> (as NO<sub>2</sub>): 0.036 lb/MMBtu, VOC: 0.003 lb/MMBtu; or CO: 46.6 ppmv @ 3% O<sub>2</sub>. [District NSR Rule], [Federally Enforceable Through Title V]
11. Source testing to measure NO<sub>x</sub> and CO emissions shall be conducted not less than once every 36 months if compliance is demonstrated on two consecutive annual tests. [District Rules 4305, 4351, and 2520, 9.4.2], [Federally Enforceable Through Title V]
12. If permittee fails any compliance demonstration for NO<sub>x</sub> and CO emission limits when testing not less than once every 36 months, compliance with NO<sub>x</sub> and CO emission limits shall be demonstrated not less than once every 12 months. [District Rules 4305, 4351, and 2520, 9.4.2], [Federally Enforceable Through Title V]
13. Source test results from an individual unit that is identical to this unit, in terms of rated capacity, operational conditions, fuel used, and control method, as approved by the APCO, will satisfy the NO<sub>x</sub> and CO source testing requirement. [District Rules 2520, 9.4.2], [Federally Enforceable Through Title V]
14. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081], [Federally Enforceable Through Title V]
15. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081], [Federally Enforceable Through Title V]
16. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081], [Federally Enforceable Through Title V]
17. The following test methods shall be used: NO<sub>x</sub> (ppmv) - EPA Method 7E or ARB Method 100, NO<sub>x</sub> (lb/MMBtu) - EPA Method 19, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and fuel gas sulfur content - ASTM D3246 or double GC for H<sub>2</sub>S and mercaptans. [District Rules 1081, 4305, and 4351], [Federally Enforceable Through Title V]
18. The sample collection shall be conducted under conditions (fuel quality, firing rate, waste gas incineration, air fuel ratio, etc.) expected to result in emissions representative of normal operation. [District Rule 1081], [Federally Enforceable Through Title V]



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19. The operational conditions during compliance testing may be imposed as permit requirements. [District Rule 2080], [Federally Enforceable Through Title V]
20. Operation shall be equipped with flue gas recirculation valve setting indicator. [District NSR Rules and District Rule 4305], [Federally Enforceable Through Title V]
21. The acceptable FGR valve settings shall be established by testing emissions from this unit or other representative units as approved by the District. The acceptable settings shall be the minimum FGR recirculation rate setting with which compliance with applicable NOx and CO emissions limits have been demonstrated through source testing at a similar firing rate. [District Rule 4305 and District NSR Rule], [Federally Enforceable Through Title V]
22. The flue gas recirculation valve shall be inspected at least on a weekly basis. [District Rule 4305 and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
23. If the FGR valve setting is not within the acceptable setting, the permittee shall notify the District and return the valve setting to within the acceptable range within one (1) hour after detection. If the FGR valve setting is not corrected within (1) hour, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emissions limits at the observed FGR valve settings. [District Rule 4305 and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
24. The permittee shall maintain records of the date and time of FGR valve setting observations and the observed setting. The records shall also include a description of any corrective action taken to maintain FGR valve setting at or above the minimum acceptable setting. These records shall be retained at the facility and shall be made available for District inspection upon request. [District Rule 4305 and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
25. Particulate matter emissions shall not exceed 0.1 grain/dscf at operating conditions, nor 0.1 grain/dscf calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rule 4201 and District Rule 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
26. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume, 2000 ppmv, as measured on a dry basis over a 15 minute period. [Kern County Rules 407, District Rule 4801, and District Rule 4301, 5.2.1], [Federally Enforceable Through Title V]
27. Nitrogen oxide (NOx) emissions shall not exceed 140 lb/hr. [District Rule 4301, 5.2.2], [Federally Enforceable Through Title V]
28. The operator shall do one of the following: fire the unit exclusively on the PUC-regulated natural gas; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 6 ppm. [District Rule 4801 and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
29. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
30. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
31. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (amended December 16, 1993), of 3 forty-minute test runs for NOx and CO. This mean shall be multiplied by the appropriate factor. [District Rule 1081 and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
32. The following conditions must be met for representative units to be used to test for NOx and CO emissions for a group of units: 1) all units are initially source tested and emissions from each unit in group are less than 90% of permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of heat input, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
33. All units in a group for which representative units are annually source tested for NOx and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
34. An operating log shall be maintained for each unit of the group. The log shall include, on a monthly basis, the total hours of operation, type and quantity of fuel used, and preventative and corrective maintenance and modifications performed. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
35. The number of representative units source tested for NOx and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated such that in three years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
36. Should any of the representative units exceed the required emission limits of this permit, each of the unit in the group shall conduct emissions testing within 90 days of the failed test. (This requirement shall not supersede a more stringent NSR or PSD permit testing requirement.) [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## **Initial TV Permit**

37. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVAPCD Rule 4201 (Amended December 17, 1992), Rule 4801 (amended December 17, 1992), and Rule 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
38. Compliance with permit conditions in the Title V permit shall be deemed compliance with the out dated Kern County Rules: 108.1, 404, and 407.2. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
39. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c through 60.48c do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-254-3

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

62.5 MMBTU/HR NATURAL GAS/VAPOR RECOVERY GAS-FIRED STRUTHERS STEAM GENERATOR (#69) WITH NORTH AMERICAN, MODEL 6131-G, BURNER ASSEMBLY, FGR, AND OXYGEN ANALYZER/CONTROLLER.

## **PERMIT UNIT REQUIREMENTS**

1. All wells producing from strata steamed by this unit shall be connected to a District-approved emissions control system, have District-approved closed casing vents or be District-approved uncontrolled cyclic wells. [District Rule 4401], [Federally Enforceable Through Title V]
2. Only three of the following units shall be operated at any given time: S-1246-252, -253, -254, & -258. [District NSR Rule], [Federally Enforceable Through Title V]
3. Only fuel gas, vapors from tank battery vapor control system S-1246-258 and waste gas from TEOR system S-1246-268 may be incinerated in this steam generator. [District NSR Rule], [Federally Enforceable Through Title V]
4. Natural gas fuel sulfur content shall not exceed 6 ppm (utility grade). [District NSR Rule], [Federally Enforceable Through Title V]
5. Sufficient reference gas shall be available to allow for calibration of oxygen analyzer unit at all times. [District NSR Rule], [Federally Enforceable Through Title V]
6. In case of failure of oxygen analyzer/controller, inlet air damper shall automatically return to "neutral" position. [District NSR Rule], [Federally Enforceable Through Title V]
7. If steam generator is inoperative, non-condensable vapors shall not vent to atmosphere. [District NSR Rule], [Federally Enforceable Through Title V]
8. Sulfur Compound emission shall not exceed 30.0 lb/day of SO<sub>2</sub>. [District NSR Rule], [Federally Enforceable Through Title V]
9. Permittee shall keep accurate daily records of fuel gas H<sub>2</sub>S concentration and flowrate (scfd) and such records shall be made readily available to District staff at time of annual PTO renewal inspection. [District Rule 1070], [Federally Enforceable Through Title V]
10. Emission rates shall not exceed any of the following: PM<sub>10</sub>: 0.005 lb/MMBtu, NO<sub>x</sub> (as NO<sub>2</sub>): 0.036 lb/MMBtu, VOC: 0.003 lb/MMBtu; or CO: 46.6 ppmv @ 3% O<sub>2</sub>. [District NSR Rule], [Federally Enforceable Through Title V]
11. Source testing to measure NO<sub>x</sub> and CO emissions shall be conducted not less than once every 36 months if compliance is demonstrated on two consecutive annual tests. [District Rules 4305, 4351, and 2520, 9.4.2], [Federally Enforceable Through Title V]
12. If permittee fails any compliance demonstration for NO<sub>x</sub> and CO emission limits when testing not less than once every 36 months, compliance with NO<sub>x</sub> and CO emission limits shall be demonstrated not less than once every 12 months. [District Rules 4305, 4351, and 2520, 9.4.2], [Federally Enforceable Through Title V]
13. Source test results from an individual unit that is identical to this unit, in terms of rated capacity, operational conditions, fuel used, and control method, as approved by the APCO, will satisfy the NO<sub>x</sub> and CO source testing requirement. [District Rules 2520, 9.4.2], [Federally Enforceable Through Title V]
14. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081], [Federally Enforceable Through Title V]
15. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081], [Federally Enforceable Through Title V]
16. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081], [Federally Enforceable Through Title V]
17. The following test methods shall be used: NO<sub>x</sub> (ppmv) - EPA Method 7E or ARB Method 100, NO<sub>x</sub> (lb/MMBtu) - EPA Method 19, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and fuel gas sulfur content - ASTM D3246 or double GC for H<sub>2</sub>S and mercaptans. [District Rules 1081, 4305, and 4351], [Federally Enforceable Through Title V]
18. The sample collection shall be conducted under conditions (fuel quality, firing rate, waste gas incineration, air fuel ratio, etc.) expected to result in emissions representative of normal operation. [District Rule 1081], [Federally Enforceable Through Title V]

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19. The operational conditions during compliance testing may be imposed as permit requirements. [District Rule 2080], [Federally Enforceable Through Title V]
20. Operation shall be equipped with flue gas recirculation valve setting indicator. [District NSR Rules and District Rule 4305], [Federally Enforceable Through Title V]
21. The acceptable FGR valve settings shall be established by testing emissions from this unit or other representative units as approved by the District. The acceptable settings shall be the minimum FGR recirculation rate setting with which compliance with applicable NO<sub>x</sub> and CO emissions limits have been demonstrated through source testing at a similar firing rate. [District Rule 4305 and District NSR Rule], [Federally Enforceable Through Title V]
22. The flue gas recirculation valve shall be inspected at least on a weekly basis. [District Rule 4305 and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
23. If the FGR valve setting is not within the acceptable setting, the permittee shall notify the District and return the valve setting to within the acceptable range within one (1) hour after detection. If the FGR valve setting is not corrected within (1) hour, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emissions limits at the observed FGR valve settings. [District Rule 4305 and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
24. The permittee shall maintain records of the date and time of FGR valve setting observations and the observed setting. The records shall also include a description of any corrective action taken to maintain FGR valve setting at or above the minimum acceptable setting. These records shall be retained at the facility and shall be made available for District inspection upon request. [District Rule 4305 and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
25. Particulate matter emissions shall not exceed 0.1 grain/dscf at operating conditions, nor 0.1 grain/dscf calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rule 4201 and District Rule 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
26. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume, 2000 ppmv, as measured on a dry basis over a 15 minute period. [Kern County Rules 407, District Rule 4801, and District Rule 4301, 5.2.1], [Federally Enforceable Through Title V]
27. Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 140 lb/hr. [District Rule 4301, 5.2.2], [Federally Enforceable Through Title V]
28. The operator shall do one of the following: fire the unit exclusively on the PUC-regulated natural gas; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 6 ppm. [District Rule 4801 and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
29. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
30. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
31. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (amended December 16, 1993), of 3 forty-minute test runs for NO<sub>x</sub> and CO. This mean shall be multiplied by the appropriate factor. [District Rule 1081 and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
32. The following conditions must be met for representative units to be used to test for NO<sub>x</sub> and CO emissions for a group of units: 1) all units are initially source tested and emissions from each unit in group are less than 90% of permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of heat input, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
33. All units in a group for which representative units are annually source tested for NO<sub>x</sub> and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
34. An operating log shall be maintained for each unit of the group. The log shall include, on a monthly basis, the total hours of operation, type and quantity of fuel used, and preventative and corrective maintenance and modifications performed. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
35. The number of representative units source tested for NO<sub>x</sub> and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated such that in three years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
36. Should any of the representative units exceed the required emission limits of this permit, each of the unit in the group shall conduct emissions testing within 90 days of the failed test. (This requirement shall not supersede a more stringent NSR or PSD permit testing requirement.) [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

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37. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVAPCD Rule 4201 (Amended December 17, 1992), Rule 4801 (amended December 17, 1992), and Rule 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
38. Compliance with permit conditions in the Title V permit shall be deemed compliance with the out dated Kern County Rules: 108.1, 404, and 407.2. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
39. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c through 60.48c do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-255-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

126,000 GALLON CRUDE OIL PRODUCTION TANK #T-101 WITH VAPOR CONTROL

## **PERMIT UNIT REQUIREMENTS**

1. Tank shall be connected to vapor recovery system specified on PTO S-1246-258. [District NSR Rule], [Federally Enforceable Through Title V]
2. Water drawoff system shall consist only of closed piping. [District NSR Rule], [Federally Enforceable Through Title V]
3. Tank shall be equipped with stored liquids temperature indicator. [District NSR Rule], [Federally Enforceable Through Title V]
4. Tank gauge hatch, relief valves, manholes, etc., shall be equipped with resilient vapor-tight (as defined in Rule 4623) gaskets. [District NSR Rule], [Federally Enforceable Through Title V]
5. Tank seams, welds, joints, piping, valves, and fittings shall be inspected and maintained in a gas-tight (as defined in Rule 4623) condition. [District NSR Rule], [Federally Enforceable Through Title V]
6. Tank pressure relief valves shall not open unless tank internal pressure exceeds 2.5 in w.c. or falls below -0.5 in w.c. [District NSR Rule], [Federally Enforceable Through Title V]
7. Tank gauge hatch, relief valves, manholes, etc., shall be closed and gas-tight (as defined in Rule 4623) during normal operation. [District NSR Rule], [Federally Enforceable Through Title V]
8. Only heavy crude oil, no light crude oil or petroleum distillates, shall be stored. [District NSR Rule], [Federally Enforceable Through Title V]
9. True vapor pressure of liquids placed, stored or held in the tank shall not exceed 4.4 psia. [District NSR Rule], [Federally Enforceable Through Title V]
10. Average daily throughput of total fluids (on an annual basis) shall not exceed 1,050,000 gallons/day. [District NSR Rule], [Federally Enforceable Through Title V]
11. Volatile Organic Compound (VOC) emission rate shall not exceed 6.30 lbm/hr. [District NSR Rule], [Federally Enforceable Through Title V]
12. Permittee shall maintain accurate records of fluid throughput, storage temperature, and maximum true vapor pressure of unaged petroleum liquids stored and shall make such records readily available for District inspection upon request. [District NSR Rule and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. Vapor control efficiency shall be maintained at no less than 99%. [District NSR Rule], [Federally Enforceable Through Title V]
14. All piping, fittings, and valves shall be inspected annually by the facility operator in accordance with EPA Method 21, with the instrument calibrated with methane, to ensure compliance with the provisions of this permit. If any of the tank components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If no tank components are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired at the next process unit turnaround (the scheduled shutdown of a unit for maintenance and repair work). [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
15. The facility operator, upon detection of a leaking component, shall affix to that component a weatherproof readily visible tag bearing the date on which the leak is detected. The tag shall remain in place until the leaking component is repaired, reinspected and found to be in compliance with the requirements of this rule. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
16. An operator shall reinspect a component for leaks within thirty working days after the date on which the component is repaired. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. Emissions from components which have been tagged by the facility operator for repair within 15 calendar days or which have been repaired and are awaiting re-inspection shall not be in violation of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

18. Any component leak shall be repaired to a leak-free condition or vented to a flare satisfying the requirements of 40 CFR 60.18 or to a vapor control device within fifteen (15) calendar days of detection. The APCO may grant a ten (10) calendar day extension provided the operator demonstrates that necessary and sufficient actions are being taken to correct the leak within this time period. Any vapor control device, other than a flare, used to comply with this condition shall determine control efficiency as measured by EPA Method 25 at least annually. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
19. If the leaking component is an essential part of a critical process unit which cannot be immediately shut down for repairs, the operator shall 1) Minimize the leak within 15 calendar days; and 2) If the leak which has been minimized still exceeds the concentration allowed by this permit, the essential component shall be repaired to eliminate the leak during the next process unit turnaround, but in no case later than one year from the date of the original leak detection. A critical process unit is any process unit which would result in the automatic shutdown of other process units if it were shut down. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
20. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date of leak detection, and method of detection; 3) Date and emission level of recheck after leak is repaired; 4) Identification and location of essential parts of critical process units found leaking that cannot be repaired until the next process unit turnaround; and 5) Method used to minimize the leak from essential parts of critical process units which cannot be repaired until the next process unit turnaround. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
21. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 4623, 6.2.2], [Federally Enforceable Through Title V]
22. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 4623, 6.2.3], [Federally Enforceable Through Title V]
23. Control efficiency shall be determined by a comparison of controlled emissions to those emissions which would occur from a fixed or cone roof tank in the same product service without a vapor recovery system. Emissions shall be determined based on tank emission factors in EPA Publication AP-42, component counts for fugitive emissions sources, recognized emission factors for fugitive emission sources and the efficiency of any VOC destruction device. [District Rule 4623, 6.2.4], [Federally Enforceable Through Title V]
24. The efficiency of any VOC destruction device shall be measured by EPA Method 25, 25a, or 25b. [District Rule 4623, 6.2.5], [Federally Enforceable Through Title V]
25. The operator shall ensure that the vapor recovery system is functional and is operating as designed at all times. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
26. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
27. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
28. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-256-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

210,000 GALLON CRUDE OIL SHIPPING #T-102A TANK W/VAPOR CONTROL

## **PERMIT UNIT REQUIREMENTS**

1. Tank shall be connected to vapor recovery system specified on PTO S-1246-258. [District NSR Rule], [Federally Enforceable Through Title V]
2. Water drawoff system shall consist only of closed piping. [District NSR Rule], [Federally Enforceable Through Title V]
3. Tank shall be equipped with stored liquids temperature indicator. [District NSR Rule], [Federally Enforceable Through Title V]
4. Tank gauge hatch, relief valves, manholes, etc., shall be equipped with resilient vapor-tight gaskets. [District NSR Rule], [Federally Enforceable Through Title V]
5. Tank seams, welds, joints, piping, valves, and fittings shall be inspected and maintained in a gas-tight condition. [District NSR Rule], [Federally Enforceable Through Title V]
6. Tank pressure relief valves shall not open unless tank internal pressure exceeds 2.5 in w.c. or falls below -0.5 in w.c. [District NSR Rule], [Federally Enforceable Through Title V]
7. True vapor pressure of liquids placed, stored or held in the tank shall not exceed 7 psia. [District NSR Rule], [Federally Enforceable Through Title V]
8. Only heavy crude oil, no light crude oil or petroleum distillates, shall be stored. [District NSR Rule], [Federally Enforceable Through Title V]
9. Average daily throughput of total fluids (on an annual basis) shall not exceed 210,000 gallons/day. [District NSR Rule], [Federally Enforceable Through Title V]
10. Tank gauge hatch, relief valves, manholes, etc., shall be closed and vapor-tight during normal operation. [District NSR Rule], [Federally Enforceable Through Title V]
11. Volatile Organic Compound (VOC) emission rate shall not exceed 0.16 lbm/hr. [District NSR Rule], [Federally Enforceable Through Title V]
12. Permittee shall maintain accurate records of fluid throughput, storage temperature, and maximum true vapor pressure of unaged petroleum liquids stored and shall make such records readily available for District inspection upon request. [District NSR Rule and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. The tank shall be equipped with a vapor loss prevention system capable of collecting all VOC emissions and preventing their emissions to the atmosphere at an efficiency of at least 99% by weight. [District Rule 4623, 5.3.1], [Federally Enforceable Through Title V]
14. All piping, fittings, and valves shall be inspected annually by the facility operator in accordance with EPA Method 21, with the instrument calibrated with methane, to ensure compliance with the provisions of this permit. If any of the tank components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If no tank components are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired at the next process unit turnaround (the scheduled shutdown of a unit for maintenance and repair work). [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
15. The facility operator, upon detection of a leaking component, shall affix to that component a weatherproof readily visible tag bearing the date on which the leak is detected. The tag shall remain in place until the leaking component is repaired, reinspected and found to be in compliance with the requirements of this rule. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
16. An operator shall reinspect a component for leaks within thirty working days after the date on which the component is repaired. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. Emissions from components which have been tagged by the facility operator for repair within 15 calendar days or which have been repaired and are awaiting re-inspection shall not be in violation of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]



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18. Any component leak shall be repaired to a leak-free condition or vented to a flare satisfying the requirements of 40 CFR 60.18 or to a vapor control device that is at least 95 percent efficient as measured by EPA Method 25 within fifteen (15) calendar days of detection. The APCO may grant a ten (10) calendar day extension provided the operator demonstrates that necessary and sufficient actions are being taken to correct the leak within this time period. Any vapor control device, other than a flare, used to comply with this condition shall demonstrate at least 95% control efficiency as measured by EPA Method 25 at least annually. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
19. If the leaking component is an essential part of a critical process unit which cannot be immediately shut down for repairs, the operator shall 1) Minimize the leak within 15 calendar days; and 2) If the leak which has been minimized still exceeds the concentration allowed by this permit, the essential component shall be repaired to eliminate the leak during the next process unit turnaround, but in no case later than one year from the date of the original leak detection. A critical process unit is any process unit which would result in the automatic shutdown of other process units if it were shut down. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
20. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date of leak detection, and method of detection; 3) Date and emission level of recheck after leak is repaired; 4) Identification and location of essential parts of critical process units found leaking that cannot be repaired until the next process unit turnaround; and 5) Method used to minimize the leak from essential parts of critical process units which cannot be repaired until the next process unit turnaround. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
21. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 4623, 6.2.2], [Federally Enforceable Through Title V]
22. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 4623, 6.2.3], [Federally Enforceable Through Title V]
23. Control efficiency shall be determined by a comparison of controlled emissions to those emissions which would occur from a fixed or cone roof tank in the same product service without a vapor recovery system. Emissions shall be determined based on tank emission factors in EPA Publication AP-42, component counts for fugitive emissions sources, recognized emission factors for fugitive emission sources and the efficiency of any VOC destruction device. [District Rule 4623, 6.2.4], [Federally Enforceable Through Title V]
24. The efficiency of any VOC destruction device shall be measured by EPA Method 25, 25a, or 25b. [District Rule 4623, 6.2.5], [Federally Enforceable Through Title V]
25. The operator shall ensure that the vapor recovery system is functional and is operating as designed at all times. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
26. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
27. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
28. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-257-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

210,000 GALLON REJECT TANK #T-104 W/VAPOR CONTROL

**PERMIT UNIT REQUIREMENTS**

1. Tank shall be connected to vapor recovery system specified on PTO S-1246-258. [District NSR Rule], [Federally Enforceable Through Title V]
2. Water drawoff system shall consist only of closed piping. [District NSR Rule], [Federally Enforceable Through Title V]
3. Tank shall be equipped with stored liquids temperature indicator. [District NSR Rule], [Federally Enforceable Through Title V]
4. Tank gauge hatch, relief valves, manholes, etc., shall be equipped with resilient vapor-tight gaskets. [District NSR Rule], [Federally Enforceable Through Title V]
5. Tank seams, welds, joints, piping, valves, and fittings shall be inspected and maintained in a gas-tight condition. [District NSR Rule], [Federally Enforceable Through Title V]
6. Tank pressure relief valves shall not open unless tank internal pressure exceeds 2.5 in w.c. or falls below -0.5 in w.c. [District NSR Rule], [Federally Enforceable Through Title V]
7. True vapor pressure of liquids placed, stored or held in the tank shall not exceed 7 psia. [District NSR Rule], [Federally Enforceable Through Title V]
8. Only heavy crude oil, no light crude oil or petroleum distillates, shall be stored. [District NSR Rule], [Federally Enforceable Through Title V]
9. Average daily throughput of total fluids (on an annual basis) shall not exceed 210,000 gallons/day. [District NSR Rule], [Federally Enforceable Through Title V]
10. Tank gauge hatch, relief valves, manholes, etc., shall be closed and vapor-tight during normal operation. [District NSR Rule], [Federally Enforceable Through Title V]
11. Volatile Organic Compound (VOC) emission rate shall not exceed 0.08 lbm/hr. [District NSR Rule], [Federally Enforceable Through Title V]
12. Permittee shall maintain accurate records of fluid throughput, storage temperature, and maximum true vapor pressure of unaged petroleum liquids stored and shall make such records readily available for District inspection upon request. [District NSR Rule and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. The tank shall be equipped with a vapor loss prevention system capable of collecting all VOC emissions and preventing their emissions to the atmosphere at an efficiency of at least 99% by weight. [District Rule 4623, 5.3.1], [Federally Enforceable Through Title V]
14. All piping, fittings, and valves shall be inspected annually by the facility operator in accordance with EPA Method 21, with the instrument calibrated with methane, to ensure compliance with the provisions of this permit. If any of the tank components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If no tank components are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired at the next process unit turnaround (the scheduled shutdown of a unit for maintenance and repair work). [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
15. The facility operator, upon detection of a leaking component, shall affix to that component a weatherproof readily visible tag bearing the date on which the leak is detected. The tag shall remain in place until the leaking component is repaired, reinspected and found to be in compliance with the requirements of this rule. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
16. An operator shall reinspect a component for leaks within thirty working days after the date on which the component is repaired. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. Emissions from components which have been tagged by the facility operator for repair within 15 calendar days or which have been repaired and are awaiting re-inspection shall not be in violation of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

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18. Any component leak shall be repaired to a leak-free condition or vented to a flare satisfying the requirements of 40 CFR 60.18 or to a vapor control device that is at least 95 percent efficient as measured by EPA Method 25 within fifteen (15) calendar days of detection. The APCO may grant a ten (10) calendar day extension provided the operator demonstrates that necessary and sufficient actions are being taken to correct the leak within this time period. Any vapor control device, other than a flare, used to comply with this condition shall demonstrate at least 95% control efficiency as measured by EPA Method 25 at least annually. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
19. If the leaking component is an essential part of a critical process unit which cannot be immediately shut down for repairs, the operator shall 1) Minimize the leak within 15 calendar days; and 2) If the leak which has been minimized still exceeds the concentration allowed by this permit, the essential component shall be repaired to eliminate the leak during the next process unit turnaround, but in no case later than one year from the date of the original leak detection. A critical process unit is any process unit which would result in the automatic shutdown of other process units if it were shut down. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
20. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date of leak detection, and method of detection; 3) Date and emission level of recheck after leak is repaired; 4) Identification and location of essential parts of critical process units found leaking that cannot be repaired until the next process unit turnaround; and 5) Method used to minimize the leak from essential parts of critical process units which cannot be repaired until the next process unit turnaround. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
21. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 4623, 6.2.2], [Federally Enforceable Through Title V]
22. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 4623, 6.2.3], [Federally Enforceable Through Title V]
23. Control efficiency shall be determined by a comparison of controlled emissions to those emissions which would occur from a fixed or cone roof tank in the same product service without a vapor recovery system. Emissions shall be determined based on tank emission factors in EPA Publication AP-42, component counts for fugitive emissions sources, recognized emission factors for fugitive emission sources and the efficiency of any VOC destruction device. [District Rule 4623, 6.2.4], [Federally Enforceable Through Title V]
24. The efficiency of any VOC destruction device shall be measured by EPA Method 25, 25a, or 25b. [District Rule 4623, 6.2.5], [Federally Enforceable Through Title V]
25. The operator shall ensure that the vapor recovery system is functional and is operating as designed at all times. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
26. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
27. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
28. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-258-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

TANK BATTERY VAPOR CONTROL SYSTEM AND STANDBY FLARE INCLUDING ONE TWO-PHASE SEPARATOR (V-111), TWO 40 HP VAPOR COMPRESSORS (K-101 A&B), ONE FIN-FAN HEAT EXCHANGER (HE-107) WITH 10 HP ELECTRIC MOTOR, ONE 2' DIA. X 6' LONG DISCHARGE SEPARATOR (V-112).

## **PERMIT UNIT REQUIREMENTS**

1. Tank battery vapor control system serves the following units: tanks S-1246-255, -256, -257, -259, -260, -261, -262, -263, TEOR system S-1246-268, Wemco S-1246-264, and heater treater S-1246-266. [District NSR Rule], [Federally Enforceable Through Title V]
2. Tank battery vapor control system shall be capable of discharging vapors to approved steam generators (S-1246-252, -253, & -254), Kaldair Inc. 14.5 MMBtu/hr, Indiar hr (-6-AS unassisted flare with two constant burning pilots and KEP-100 ignition systems), and two DOGGR-approved wells. [District NSR Rule], [Federally Enforceable Through Title V]
3. Collected vapors shall not be concurrently incinerated in approved incineration devices S-1246-252, S-1246-253, and injected in DOGGR injection wells. [District NSR Rule], [Federally Enforceable Through Title V]
4. Permittee shall cease injection vapors & notify the District immediately if DOGGR injection approval is revoked, denied, terminated, surrendered or altered to disallow injection. [District NSR Rule], [Federally Enforceable Through Title V]
5. Vapor recovery discharge piping network shall be designed such that at least two steam generators (S-1246-252, -253, and -254) and flare (S-1246-258) are capable of receiving tank battery waste gas. [District NSR Rule], [Federally Enforceable Through Title V]
6. Only three of the following incineration devices shall be operated at any given time: S-1246-252, -253, -254, & flare listed in -258. [District NSR Rule], [Federally Enforceable Through Title V]
7. Vapor compressor wet gas regulator shall be located in-line upstream of two phase separator vessel (V-111). [District NSR Rule], [Federally Enforceable Through Title V]
8. Vapor control system compressor shall activate before tanks internal pressure exceeds relief valve settings. [District NSR Rule], [Federally Enforceable Through Title V]
9. Waste gas piping at inlet to flare shall be equipped with pressure indicator. [District NSR Rule], [Federally Enforceable Through Title V]
10. Pressure of waste gas to flare shall be greater than 6 psig. [District NSR Rule], [Federally Enforceable Through Title V]
11. Pilot and purge gas use shall not exceed 6,000 scf/day. [District NSR Rule], [Federally Enforceable Through Title V]
12. Natural gas fuel sulfur content shall not exceed 6 ppm (utility grade). [District NSR Rule], [Federally Enforceable Through Title V]
13. Emission limits for flare shall not exceed: PM-10 - 0.0062 lb/MMBTU, NO<sub>x</sub> (as NO<sub>2</sub>) - 0.1400 lb/MMBTU, VOC - 0.0058 lb/MMBTU, and CO - 0.0350 lb/MMBTU. [District NSR Rule], [Federally Enforceable Through Title V]
14. Sulfur compound emissions shall not exceed 30.0 lb/day of SO<sub>2</sub>. [District NSR Rule], [Federally Enforceable Through Title V]
15. Flare shall be equipped with operational fuel monitoring system capable of determining daily quantity of each gas burned. [District NSR Rule], [Federally Enforceable Through Title V]
16. The permittee shall maintain records of fuel type, quantity, permitted emission factors and emissions for each unit for each day of operation, in the format approved by the District. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. Flares shall be operated with no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours. [40 CFR 60.18(c)(1)], [Federally Enforceable Through Title V]
18. Visible emissions inspection shall be conducted at least annually, using EPA Method 22. The observation period shall be 2 hours. [40 CFR 60.18(f)(1)], [Federally Enforceable Through Title V]
19. A trained observer, as defined in EPA Method 22, shall check visible emissions at least once every two weeks for a period of 15 minutes. If visible emissions are detected at any times during this period, the observation period shall be extended to two hours. A record containing results of these observations shall be maintained, which also includes company name, process unit, observer's name and affiliation, date, estimated wind speed and direction, sky condition, and the observer's location relative to the source and sun. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

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20. The flare shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
21. Flares shall only be used with the net heating value of the gas being combusted being 200 Btu/scf or greater. [40 CFR 60.18 (c)(3)], [Federally Enforceable Through Title V]
22. The net heating value of the gas being combusted in a flare shall be calculated annually, pursuant to 40 CFR 60.18 (f)(3) and using EPA Method 18, ASTM D1946-77, and ASTM D2382-76. [Subpart 60.18 (f)(3-6)], [Federally Enforceable Through Title V]
23. Non-assisted flare shall be designed and operated with an exit velocity, as determined by the methods specified in 40 CFR 60.18 (f)(4) of A) less than 60 ft/sec, B) equal to or greater than 60 ft/sec, but less than 400 ft/sec, if the net heating value of gas being combusted is greater than 1,000 Btu/scf, or C) less than the Vmax, as determined by the method specified in 40 CFR 60.18 (f)(5), and less than 400 ft/sec, if the net heating value of gas being combusted is greater than 200 Btu/scf. [40 CFR 60.18 (c)(4)(i), (ii), and (iii).], [Federally Enforceable Through Title V]
24. The actual exit velocity of a flare shall be determined by dividing the volumetric flowrate (in units of standard temperature and pressure), as determined by Reference Methods 2, 2A, 2C, or 2D as appropriate; by the unobstructed (free) cross sectional area of the flare tip. [40 CFR Subpart 60.18 (f)(4)], [Federally Enforceable Through Title V]
25. Flares shall be operated with a flame present at all times, and kept in operation when emissions may be vented to them. The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame. [40 CFR 60.18 (c)(2), 60.18 (e), and 60.18 (f)(2)], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-259-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

210,000 GALLON SURGE/CLARIFIER TANK T-105 WITH VAPOR CONTROL

## **PERMIT UNIT REQUIREMENTS**

1. Tank shall be connected to vapor recovery system specified on PTO S-1246-258. [District NSR Rule], [Federally Enforceable Through Title V]
2. Water drawoff system shall consist only of closed piping. [District NSR Rule], [Federally Enforceable Through Title V]
3. Tank shall be equipped with stored liquids temperature indicator. [District NSR Rule], [Federally Enforceable Through Title V]
4. Tank gauge hatch, relief valves, manholes, etc., shall be equipped with resilient vapor-tight (as defined in Rule 4623) gaskets. [District NSR Rule], [Federally Enforceable Through Title V]
5. Tank seams, welds, joints, piping, valves, and fittings shall be inspected and maintained in a gas-tight (as defined in Rule 4623) condition. [District NSR Rule], [Federally Enforceable Through Title V]
6. Tank pressure relief valves shall not open unless tank internal pressure exceeds 2.5 in w.c. or falls below -0.5 in w.c. [District NSR Rule], [Federally Enforceable Through Title V]
7. Tank gauge hatch, relief valves, manholes, etc., shall be closed and gas-tight (as defined in Rule 4623) during normal operation. [District NSR Rule], [Federally Enforceable Through Title V]
8. Tank shall be operated with a constant fluid level. [District NSR Rule], [Federally Enforceable Through Title V]
9. Only heavy crude oil, no light crude oil or petroleum distillates, shall be stored. [District NSR Rule], [Federally Enforceable Through Title V]
10. True vapor pressure of liquids placed, stored or held in the tank shall not exceed 4.4 psia. [District NSR Rule], [Federally Enforceable Through Title V]
11. Volatile Organic Compound (VOC) emission rate shall not exceed 0.20 lbm/hr. [District NSR Rule], [Federally Enforceable Through Title V]
12. Permittee shall maintain accurate records of fluid throughput, storage temperature, and maximum true vapor pressure of unaged petroleum liquids stored and shall make such records readily available for District inspection upon request. [District NSR Rule and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. Vapor control efficiency shall be maintained at no less than 99%. [District NSR Rule], [Federally Enforceable Through Title V]
14. All piping, fittings, and valves shall be inspected annually by the facility operator in accordance with EPA Method 21, with the instrument calibrated with methane, to ensure compliance with the provisions of this permit. If any of the tank components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If no tank components are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired at the next process unit turnaround (the scheduled shutdown of a unit for maintenance and repair work). [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
15. The facility operator, upon detection of a leaking component, shall affix to that component a weatherproof readily visible tag bearing the date on which the leak is detected. The tag shall remain in place until the leaking component is repaired, reinspected and found to be in compliance with the requirements of this rule. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
16. An operator shall reinspect a component for leaks within thirty working days after the date on which the component is repaired. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. Emissions from components which have been tagged by the facility operator for repair within 15 calendar days or which have been repaired and are awaiting re-inspection shall not be in violation of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
18. Any component leak shall be repaired to a leak-free condition or vented to a flare satisfying the requirements of 40 CFR 60.18 or to a vapor control device within fifteen (15) calendar days of detection. The APCO may grant a ten (10) calendar day extension provided the operator demonstrates that necessary and sufficient actions are being taken to correct the leak within this time period. Any vapor control device, other than a flare, used to comply with this condition shall determine control efficiency as measured by EPA Method 25 at least annually. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

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19. If the leaking component is an essential part of a critical process unit which cannot be immediately shut down for repairs, the operator shall 1) Minimize the leak within 15 calendar days; and 2) If the leak which has been minimized still exceeds the concentration allowed by this permit, the essential component shall be repaired to eliminate the leak during the next process unit turnaround, but in no case later than one year from the date of the original leak detection. A critical process unit is any process unit which would result in the automatic shutdown of other process units if it were shut down. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
20. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date of leak detection, and method of detection; 3) Date and emission level of recheck after leak is repaired; 4) Identification and location of essential parts of critical process units found leaking that cannot be repaired until the next process unit turnaround; and 5) Method used to minimize the leak from essential parts of critical process units which cannot be repaired until the next process unit turnaround. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
21. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 4623, 6.2.2], [Federally Enforceable Through Title V]
22. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 4623, 6.2.3], [Federally Enforceable Through Title V]
23. Control efficiency shall be determined by a comparison of controlled emissions to those emissions which would occur from a fixed or cone roof tank in the same product service without a vapor recovery system. Emissions shall be determined based on tank emission factors in EPA Publication AP-42, component counts for fugitive emissions sources, recognized emission factors for fugitive emission sources and the efficiency of any VOC destruction device. [District Rule 4623, 6.2.4], [Federally Enforceable Through Title V]
24. The efficiency of any VOC destruction device shall be measured by EPA Method 25, 25a, or 25b. [District Rule 4623, 6.2.5], [Federally Enforceable Through Title V]
25. The operator shall ensure that the vapor recovery system is functional and is operating as designed at all times. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
26. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
27. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
28. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-260-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

63,000 GALLON WATER SURGE TANK T-106 WITH VAPOR CONTROL

**PERMIT UNIT REQUIREMENTS**

1. Tank shall be connected to vapor recovery system specified on PTO S-1246-258. [District NSR Rule], [Federally Enforceable Through Title V]
2. Water drawoff system shall consist only of closed piping. [District NSR Rule], [Federally Enforceable Through Title V]
3. Tank shall be equipped with stored liquids temperature indicator. [District NSR Rule], [Federally Enforceable Through Title V]
4. Tank gauge hatch, relief valves, manholes, etc., shall be equipped with resilient vapor-tight (as defined in Rule 4623) gaskets. [District NSR Rule], [Federally Enforceable Through Title V]
5. Tank seams, welds, joints, piping, valves, and fittings shall be inspected and maintained in a gas-tight (as defined in Rule 4623) condition. [District NSR Rule], [Federally Enforceable Through Title V]
6. Tank pressure relief valves shall not open unless tank internal pressure exceeds 2.5 in w.c. or falls below -0.5 in w.c. [District NSR Rule], [Federally Enforceable Through Title V]
7. Tank gauge hatch, relief valves, manholes, etc., shall be closed and gas-tight (as defined in Rule 4623) during normal operation. [District NSR Rule], [Federally Enforceable Through Title V]
8. Only heavy crude oil, no light crude oil or petroleum distillates, shall be stored. [District NSR Rule], [Federally Enforceable Through Title V]
9. True vapor pressure of liquids placed, stored or held in the tank shall not exceed 4.4 psia. [District NSR Rule], [Federally Enforceable Through Title V]
10. Average daily throughput of total fluids (on an annual basis) shall not exceed 1,050,000 gallons/day. [District NSR Rule], [Federally Enforceable Through Title V]
11. Volatile Organic Compound (VOC) emission rate shall not exceed 6.10 lbm/hr. [District NSR Rule], [Federally Enforceable Through Title V]
12. Permittee shall maintain accurate records of fluid throughput, storage temperature, and maximum true vapor pressure of unaged petroleum liquids stored and shall make such records readily available for District inspection upon request. [District NSR Rule and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. Vapor control efficiency shall be maintained at no less than 99%. [District NSR Rule], [Federally Enforceable Through Title V]
14. All piping, fittings, and valves shall be inspected annually by the facility operator in accordance with EPA Method 21, with the instrument calibrated with methane, to ensure compliance with the provisions of this permit. If any of the tank components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If no tank components are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired at the next process unit turnaround (the scheduled shutdown of a unit for maintenance and repair work). [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
15. The facility operator, upon detection of a leaking component, shall affix to that component a weatherproof readily visible tag bearing the date on which the leak is detected. The tag shall remain in place until the leaking component is repaired, reinspected and found to be in compliance with the requirements of this rule. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
16. An operator shall reinspect a component for leaks within thirty working days after the date on which the component is repaired. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. Emissions from components which have been tagged by the facility operator for repair within 15 calendar days or which have been repaired and are awaiting re-inspection shall not be in violation of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]



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18. Any component leak shall be repaired to a leak-free condition or vented to a flare satisfying the requirements of 40 CFR 60.18 or to a vapor control device within fifteen (15) calendar days of detection. The APCO may grant a ten (10) calendar day extension provided the operator demonstrates that necessary and sufficient actions are being taken to correct the leak within this time period. Any vapor control device, other than a flare, used to comply with this condition shall determine control efficiency as measured by EPA Method 25 at least annually. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
19. If the leaking component is an essential part of a critical process unit which cannot be immediately shut down for repairs, the operator shall 1) Minimize the leak within 15 calendar days; and 2) If the leak which has been minimized still exceeds the concentration allowed by this permit, the essential component shall be repaired to eliminate the leak during the next process unit turnaround, but in no case later than one year from the date of the original leak detection. A critical process unit is any process unit which would result in the automatic shutdown of other process units if it were shut down. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
20. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date of leak detection, and method of detection; 3) Date and emission level of recheck after leak is repaired; 4) Identification and location of essential parts of critical process units found leaking that cannot be repaired until the next process unit turnaround; and 5) Method used to minimize the leak from essential parts of critical process units which cannot be repaired until the next process unit turnaround. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
21. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 4623, 6.2.2], [Federally Enforceable Through Title V]
22. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 4623, 6.2.3], [Federally Enforceable Through Title V]
23. Control efficiency shall be determined by a comparison of controlled emissions to those emissions which would occur from a fixed or cone roof tank in the same product service without a vapor recovery system. Emissions shall be determined based on tank emission factors in EPA Publication AP-42, component counts for fugitive emissions sources, recognized emission factors for fugitive emission sources and the efficiency of any VOC destruction device. [District Rule 4623, 6.2.4], [Federally Enforceable Through Title V]
24. The efficiency of any VOC destruction device shall be measured by EPA Method 25, 25a, or 25b. [District Rule 4623, 6.2.5], [Federally Enforceable Through Title V]
25. The operator shall ensure that the vapor recovery system is functional and is operating as designed at all times. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
26. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
27. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
28. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-261-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

63,000 GALLON SOLIDS TANK #T-108 WITH VAPOR CONTROL

## **PERMIT UNIT REQUIREMENTS**

1. Tank shall be connected to vapor recovery system specified on PTO S-1246-258. [District NSR Rule], [Federally Enforceable Through Title V]
2. Water drawoff system shall consist only of closed piping. [District NSR Rule], [Federally Enforceable Through Title V]
3. Tank shall be equipped with stored liquids temperature indicator. [District NSR Rule], [Federally Enforceable Through Title V]
4. Tank gauge hatch, relief valves, manholes, etc., shall be equipped with resilient gas-tight (as defined in Rule 4623) gaskets. [District NSR Rule], [Federally Enforceable Through Title V]
5. Tank seams, welds, joints, piping, valves, and fittings shall be inspected and maintained in a gas-tight (as defined in Rule 4623) condition. [District NSR Rule], [Federally Enforceable Through Title V]
6. Tank pressure relief valves shall not open unless tank internal pressure exceeds 2.5 in w.c. or falls below -0.5 in w.c. [District NSR Rule], [Federally Enforceable Through Title V]
7. Tank gauge hatch, relief valves, manholes, etc., shall be closed and gas-tight (as defined in Rule 4623) during normal operation. [District NSR Rule], [Federally Enforceable Through Title V]
8. Tank shall be operated with a constant fluid level. [District NSR Rule], [Federally Enforceable Through Title V]
9. Only heavy crude oil, no light crude oil or petroleum distillates, shall be stored. [District NSR Rule], [Federally Enforceable Through Title V]
10. True vapor pressure of liquids placed, stored or held in the tank shall not exceed 4.4 psia. [District NSR Rule], [Federally Enforceable Through Title V]
11. Volatile Organic Compound (VOC) emission rate shall not exceed 0.10 lbm/hr. [District NSR Rule], [Federally Enforceable Through Title V]
12. Permittee shall maintain accurate records of fluid throughput, storage temperature, and maximum true vapor pressure of unaged petroleum liquids stored and shall make such records readily available for District inspection upon request. [District NSR Rule and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. Vacuum truck loading of solids shall be performed in a manner preventing emissions to atmosphere. [District NSR Rule], [Federally Enforceable Through Title V]
14. Vapor control efficiency shall be maintained at no less than 99%. [District NSR Rule and District Rule 4623, 5.3.1], [Federally Enforceable Through Title V]
15. All piping, fittings, and valves shall be inspected annually by the facility operator in accordance with EPA Method 21, with the instrument calibrated with methane, to ensure compliance with the provisions of this permit. If any of the tank components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If no tank components are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired at the next process unit turnaround (the scheduled shutdown of a unit for maintenance and repair work). [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
16. The facility operator, upon detection of a leaking component, shall affix to that component a weatherproof readily visible tag bearing the date on which the leak is detected. The tag shall remain in place until the leaking component is repaired, reinspected and found to be in compliance with the requirements of this rule. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. An operator shall reinspect a component for leaks within thirty working days after the date on which the component is repaired. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
18. Emissions from components which have been tagged by the facility operator for repair within 15 calendar days or which have been repaired and are awaiting re-inspection shall not be in violation of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

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19. Any component leak shall be repaired to a leak-free condition or vented to a flare satisfying the requirements of 40 CFR 60.18 or to a vapor control device within fifteen (15) calendar days of detection. The APCO may grant a ten (10) calendar day extension provided the operator demonstrates that necessary and sufficient actions are being taken to correct the leak within this time period. An efficiency of a vapor control device, other than a flare, used to comply with this condition shall be measured by EPA Method 25 at least annually. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
20. If the leaking component is an essential part of a critical process unit which cannot be immediately shut down for repairs, the operator shall 1) Minimize the leak within 15 calendar days; and 2) If the leak which has been minimized still exceeds the concentration allowed by this permit, the essential component shall be repaired to eliminate the leak during the next process unit turnaround, but in no case later than one year from the date of the original leak detection. A critical process unit is any process unit which would result in the automatic shutdown of other process units if it were shut down. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
21. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date of leak detection, and method of detection; 3) Date and emission level of recheck after leak is repaired; 4) Identification and location of essential parts of critical process units found leaking that cannot be repaired until the next process unit turnaround; and 5) Method used to minimize the leak from essential parts of critical process units which cannot be repaired until the next process unit turnaround. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
22. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 4623, 6.2.2], [Federally Enforceable Through Title V]
23. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 4623, 6.2.3], [Federally Enforceable Through Title V]
24. Control efficiency shall be determined by a comparison of controlled emissions to those emissions which would occur from a fixed or cone roof tank in the same product service without a vapor recovery system. Emissions shall be determined based on tank emission factors in EPA Publication AP-42, component counts for fugitive emissions sources, recognized emission factors for fugitive emission sources and the efficiency of any VOC destruction device. [District Rule 4623, 6.2.4], [Federally Enforceable Through Title V]
25. The efficiency of any VOC destruction device shall be measured by EPA Method 25, 25a, or 25b. [District Rule 4623, 6.2.5], [Federally Enforceable Through Title V]
26. The operator shall ensure that the vapor recovery system is functional and is operating as designed at all times. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
27. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
28. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
29. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-262-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

357,000 GALLON SOFT WATER TANK #T-115 WITH VAPOR CONTROL

## **PERMIT UNIT REQUIREMENTS**

1. Tank shall be connected to vapor recovery system specified on PTO S-1246-258. [District NSR Rule], [Federally Enforceable Through Title V]
2. Tank gauge hatch, relief valves, manholes, etc., shall be equipped with resilient vapor-tight gaskets. [District NSR Rule], [Federally Enforceable Through Title V]
3. Tank seams, welds, joints, piping, valves, and fittings shall be inspected and maintained in a gas-tight condition. [District NSR Rule], [Federally Enforceable Through Title V]
4. Tank pressure relief valves shall not open unless tank internal pressure exceeds 2.5 in w.c. or falls below -0.5 in w.c. [District NSR Rule], [Federally Enforceable Through Title V]
5. Tank shall not be used to store liquid hydrocarbons. [District NSR Rule], [Federally Enforceable Through Title V]
6. Tank gauge hatch, relief valves, manholes, etc., shall be closed and vapor-tight during normal operation. [District NSR Rule], [Federally Enforceable Through Title V]
7. Volatile Organic Compound (VOC) emission rate shall not exceed 0.16 lbm/hr. [District NSR Rule], [Federally Enforceable Through Title V]
8. The tank shall be equipped with a vapor loss prevention system capable of collecting all VOC emissions and preventing their emissions to the atmosphere at an efficiency of at least 99% by weight. [District Rule 4623, 5.3.1], [Federally Enforceable Through Title V]
9. All piping, fittings, and valves shall be inspected annually by the facility operator in accordance with EPA Method 21, with the instrument calibrated with methane, to ensure compliance with the provisions of this permit. If any of the tank components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If no tank components are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired at the next process unit turnaround (the scheduled shutdown of a unit for maintenance and repair work). [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
10. The facility operator, upon detection of a leaking component, shall affix to that component a weatherproof readily visible tag bearing the date on which the leak is detected. The tag shall remain in place until the leaking component is repaired, reinspected and found to be in compliance with the requirements of this rule. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
11. An operator shall reinspect a component for leaks within thirty working days after the date on which the component is repaired. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
12. Emissions from components which have been tagged by the facility operator for repair within 15 calendar days or which have been repaired and are awaiting re-inspection shall not be in violation of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. Any component leak shall be repaired to a leak-free condition or vented to a flare satisfying the requirements of 40 CFR 60.18 or to a vapor control device that is at least 95 percent efficient as measured by EPA Method 25 within fifteen (15) calendar days of detection. The APCO may grant a ten (10) calendar day extension provided the operator demonstrates that necessary and sufficient actions are being taken to correct the leak within this time period. Any vapor control device, other than a flare, used to comply with this condition shall demonstrate at least 95% control efficiency as measured by EPA Method 25 at least annually. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
14. If the leaking component is an essential part of a critical process unit which cannot be immediately shut down for repairs, the operator shall 1) Minimize the leak within 15 calendar days; and 2) If the leak which has been minimized still exceeds the concentration allowed by this permit, the essential component shall be repaired to eliminate the leak during the next process unit turnaround, but in no case later than one year from the date of the original leak detection. A critical process unit is any process unit which would result in the automatic shutdown of other process units if it were shut down. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

15. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date of leak detection, and method of detection; 3) Date and emission level of recheck after leak is repaired; 4) Identification and location of essential parts of critical process units found leaking that cannot be repaired until the next process unit turnaround; and 5) Method used to minimize the leak from essential parts of critical process units which cannot be repaired until the next process unit turnaround. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
16. Control efficiency shall be determined by a comparison of controlled emissions to those emissions which would occur from a fixed or cone roof tank in the same product service without a vapor recovery system. Emissions shall be determined based on tank emission factors in EPA Publication AP-42, component counts for fugitive emissions sources, recognized emission factors for fugitive emission sources and the efficiency of any VOC destruction device. [District Rule 4623, 6.2.4], [Federally Enforceable Through Title V]
17. The efficiency of any VOC destruction device shall be measured by EPA Method 25, 25a, or 25b. [District Rule 4623, 6.2.5], [Federally Enforceable Through Title V]
18. The operator shall ensure that the vapor recovery system is functional and is operating as designed at all times. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
19. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
20. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-263-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

42,000 GALLON CRUDE OIL SKIM TANK #T-117 WITH VAPOR CONTROL

**PERMIT UNIT REQUIREMENTS**

1. Tank shall be connected to vapor recovery system specified on PTO S-1246-258. [District NSR Rule], [Federally Enforceable Through Title V]
2. Water drawoff system shall consist only of closed piping. [District NSR Rule], [Federally Enforceable Through Title V]
3. Tank shall be equipped with stored liquids temperature indicator. [District NSR Rule], [Federally Enforceable Through Title V]
4. Tank gauge hatch, relief valves, manholes, etc., shall be equipped with resilient vapor-tight (as defined in Rule 4623) gaskets. [District NSR Rule], [Federally Enforceable Through Title V]
5. Tank seams, welds, joints, piping, valves, and fittings shall be inspected and maintained in a gas-tight (as defined in Rule 4623) condition. [District NSR Rule], [Federally Enforceable Through Title V]
6. Tank pressure relief valves shall not open unless tank internal pressure exceeds 2.5 in w.c. or falls below -0.5 in w.c. [District NSR Rule], [Federally Enforceable Through Title V]
7. Tank gauge hatch, relief valves, manholes, etc., shall be closed and gas-tight (as defined in Rule 4623) during normal operation. [District NSR Rule], [Federally Enforceable Through Title V]
8. Only heavy crude oil, no light crude oil or petroleum distillates, shall be stored. [District NSR Rule], [Federally Enforceable Through Title V]
9. True vapor pressure of liquids placed, stored or held in the tank shall not exceed 4.4 psia. [District NSR Rule], [Federally Enforceable Through Title V]
10. Average daily throughput of total fluids (on an annual basis) shall not exceed 420,000 gallons/day. [District NSR Rule], [Federally Enforceable Through Title V]
11. Volatile Organic Compound (VOC) emission rate shall not exceed 2.50 lbm/hr. [District NSR Rule], [Federally Enforceable Through Title V]
12. Permittee shall maintain accurate records of fluid throughput, storage temperature, and maximum true vapor pressure of unaged petroleum liquids stored and shall make such records readily available for District inspection upon request. [District NSR Rule and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. Vapor control efficiency shall be maintained at no less than 99%. [District NSR Rule], [Federally Enforceable Through Title V]
14. All piping, fittings, and valves shall be inspected annually by the facility operator in accordance with EPA Method 21, with the instrument calibrated with methane, to ensure compliance with the provisions of this permit. If any of the tank components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If no tank components are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired at the next process unit turnaround (the scheduled shutdown of a unit for maintenance and repair work). [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
15. The facility operator, upon detection of a leaking component, shall affix to that component a weatherproof readily visible tag bearing the date on which the leak is detected. The tag shall remain in place until the leaking component is repaired, reinspected and found to be in compliance with the requirements of this rule. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
16. An operator shall reinspect a component for leaks within thirty working days after the date on which the component is repaired. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. Emissions from components which have been tagged by the facility operator for repair within 15 calendar days or which have been repaired and are awaiting re-inspection shall not be in violation of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

18. Any component leak shall be repaired to a leak-free condition or vented to a flare satisfying the requirements of 40 CFR 60.18 or to a vapor control device within fifteen (15) calendar days of detection. The APCO may grant a ten (10) calendar day extension provided the operator demonstrates that necessary and sufficient actions are being taken to correct the leak within this time period. Any vapor control device, other than a flare, used to comply with this condition shall determine control efficiency as measured by EPA Method 25 at least annually. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
19. If the leaking component is an essential part of a critical process unit which cannot be immediately shut down for repairs, the operator shall 1) Minimize the leak within 15 calendar days; and 2) If the leak which has been minimized still exceeds the concentration allowed by this permit, the essential component shall be repaired to eliminate the leak during the next process unit turnaround, but in no case later than one year from the date of the original leak detection. A critical process unit is any process unit which would result in the automatic shutdown of other process units if it were shut down. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
20. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date of leak detection, and method of detection; 3) Date and emission level of recheck after leak is repaired; 4) Identification and location of essential parts of critical process units found leaking that cannot be repaired until the next process unit turnaround; and 5) Method used to minimize the leak from essential parts of critical process units which cannot be repaired until the next process unit turnaround. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
21. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 4623, 6.2.2], [Federally Enforceable Through Title V]
22. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 4623, 6.2.3], [Federally Enforceable Through Title V]
23. Control efficiency shall be determined by a comparison of controlled emissions to those emissions which would occur from a fixed or cone roof tank in the same product service without a vapor recovery system. Emissions shall be determined based on tank emission factors in EPA Publication AP-42, component counts for fugitive emissions sources, recognized emission factors for fugitive emission sources and the efficiency of any VOC destruction device. [District Rule 4623, 6.2.4], [Federally Enforceable Through Title V]
24. The efficiency of any VOC destruction device shall be measured by EPA Method 25, 25a, or 25b. [District Rule 4623, 6.2.5], [Federally Enforceable Through Title V]
25. The operator shall ensure that the vapor recovery system is functional and is operating as designed at all times. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
26. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
27. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
28. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-264-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

WEMCO INDUCED GAS FLOTATION UNIT WITH VAPOR CONTROL

## **PERMIT UNIT REQUIREMENTS**

1. Tank shall be connected to vapor recovery system specified on PTO S-1246-258. [District NSR Rule], [Federally Enforceable Through Title V]
2. Oil and water drawoff system shall consist only of closed piping. [District NSR Rule], [Federally Enforceable Through Title V]
3. Unit cover inspection hatches, etc., shall be equipped with resilient vapor-tight gaskets. [District NSR Rule], [Federally Enforceable Through Title V]
4. Unit seams, welds, joints, piping, valves, and fittings shall be inspected and maintained in a gas-tight condition. [District NSR Rule], [Federally Enforceable Through Title V]
5. Tank pressure relief valves shall not open unless tank internal pressure exceeds 2.5 in w.c. or falls below -0.5 in w.c. [District NSR Rule], [Federally Enforceable Through Title V]
6. True vapor pressure of liquids placed, stored or held in the unit shall not exceed 7 psia. [District NSR Rule], [Federally Enforceable Through Title V]
7. Unit covers, inspection hatches, etc., shall be closed and vapor-tight during normal operation. [District NSR Rule], [Federally Enforceable Through Title V]
8. Volatile Organic Compound (VOC) emission rate shall not exceed 0.0 lbm/hr. [District NSR Rule], [Federally Enforceable Through Title V]
9. Permittee shall maintain accurate records of fluid throughput, storage temperature, and maximum true vapor pressure of unaged petroleum liquids stored and shall make such records readily available for District inspection upon request. [District NSR Rule and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
10. The tank shall be equipped with a vapor loss prevention system capable of collecting all VOC emissions and preventing their emissions to the atmosphere at an efficiency of at least 99% by weight. [District Rule 4623, 5.3.1], [Federally Enforceable Through Title V]
11. All piping, fittings, and valves shall be inspected annually by the facility operator in accordance with EPA Method 21, with the instrument calibrated with methane, to ensure compliance with the provisions of this permit. If any of the tank components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If no tank components are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired at the next process unit turnaround (the scheduled shutdown of a unit for maintenance and repair work). [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
12. The facility operator, upon detection of a leaking component, shall affix to that component a weatherproof readily visible tag bearing the date on which the leak is detected. The tag shall remain in place until the leaking component is repaired, reinspected and found to be in compliance with the requirements of this rule. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. An operator shall reinspect a component for leaks within thirty working days after the date on which the component is repaired. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
14. Emissions from components which have been tagged by the facility operator for repair within 15 calendar days or which have been repaired and are awaiting re-inspection shall not be in violation of this permit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
15. Any component leak shall be repaired to a leak-free condition or vented to a flare satisfying the requirements of 40 CFR 60.18 or to a vapor control device that is at least 95 percent efficient as measured by EPA Method 25 within fifteen (15) calendar days of detection. The APCO may grant a ten (10) calendar day extension provided the operator demonstrates that necessary and sufficient actions are being taken to correct the leak within this time period. Any vapor control device, other than a flare, used to comply with this condition shall demonstrate at least 95% control efficiency as measured by EPA Method 25 at least annually. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]



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16. If the leaking component is an essential part of a critical process unit which cannot be immediately shut down for repairs, the operator shall 1) Minimize the leak within 15 calendar days; and 2) If the leak which has been minimized still exceeds the concentration allowed by this permit, the essential component shall be repaired to eliminate the leak during the next process unit turnaround, but in no case later than one year from the date of the original leak detection. A critical process unit is any process unit which would result in the automatic shutdown of other process units if it were shut down. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. Operator shall maintain an inspection log containing the following 1) Type of component leaking; 2) Date of leak detection, and method of detection; 3) Date and emission level of recheck after leak is repaired; 4) Identification and location of essential parts of critical process units found leaking that cannot be repaired until the next process unit turnaround; and 5) Method used to minimize the leak from essential parts of critical process units which cannot be repaired until the next process unit turnaround. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
18. True vapor pressure shall be measured using Reid vapor pressure ASTM Method D323-82 modified by maintaining the hot water bath at storage temperature. Where storage temperature is above 100 degrees F true vapor pressure shall be determined by Reid vapor pressure at 100 degrees F and ARB approved calculations. [District Rule 4623, 6.2.2], [Federally Enforceable Through Title V]
19. True vapor pressure of crude oil with an API (American Petroleum Institute) gravity less than 30 deg, as determined by API 2547, may be determined by Headspace Gas Chromatography using the procedures from ARB Evaluation of a Method for Determining Vapor Pressures of Petroleum Mixtures by Headspace Gas Chromatography, October 1990. [District Rule 4623, 6.2.3], [Federally Enforceable Through Title V]
20. Control efficiency shall be determined by a comparison of controlled emissions to those emissions which would occur from a fixed or cone roof tank in the same product service without a vapor recovery system. Emissions shall be determined based on tank emission factors in EPA Publication AP-42, component counts for fugitive emissions sources, recognized emission factors for fugitive emission sources and the efficiency of any VOC destruction device. [District Rule 4623, 6.2.4], [Federally Enforceable Through Title V]
21. The efficiency of any VOC destruction device shall be measured by EPA Method 25, 25a, or 25b. [District Rule 4623, 6.2.5], [Federally Enforceable Through Title V]
22. The operator shall ensure that the vapor recovery system is functional and is operating as designed at all times. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
23. The requirements of 40CFR 60 Subpart K, Subpart Ka, and Subpart Kb do not apply to this source. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
24. Operator shall determine the true vapor pressure of the petroleum liquid stored in the tank at least once per year in accordance with methods described in 40 CFR 60.113 and section 6.2 of District Rule 4623 (amended 12/17/92). Determinations shall be made annually during summer and whenever there is a change in the source or type of petroleum entering the tank. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
25. As used in this permit, the term "source or type of petroleum" shall mean petroleum liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids store in this unit to determine which oil are from common source. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-265-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

235 BRAKE HP DIESEL-FIRED EMERGENCY I.C. ENGINE USED EXCLUSIVELY FOR FIRE FIGHTING SERVICES

## **PERMIT UNIT REQUIREMENTS**

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201 and Kern County Rule 404], [Federally Enforceable Through Title V]
2. This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency fire fighting situations. Operation of the engine for maintenance, testing and non-emergency purposes shall not exceed 200 hours per year. [District Rule 4701 and District NSR Rule], [Federally Enforceable Through Title V]
3. The permittee shall maintain records of hours of emergency and non-emergency operation and of the sulfur content of the diesel fuel used. Records shall be made readily available to District staff upon request. [District Rule 4701 and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
4. Particulate Matter (PM-10) emissions shall not exceed 0.5 pounds/hour. [District NSR Rule], [Federally Enforceable Through Title V]
5. Oxides of Sulfur (SOx) emissions shall not exceed 0.5 pounds/hour. [District NSR Rule], [Federally Enforceable Through Title V]
6. Oxides of Nitrogen (NOx) emissions shall not exceed 7.3 pounds/hour. [District NSR Rule], [Federally Enforceable Through Title V]
7. Volatile Organic Compound (VOC) emissions shall not exceed 0.6 pounds/hour. [District NSR Rule], [Federally Enforceable Through Title V]
8. Carbon Monoxide (CO) emissions shall not exceed 1.6 pounds/hour. [District NSR Rule], [Federally Enforceable Through Title V]
9. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. To demonstrate compliance with this requirement, the engine shall be fired on ARB certified diesel fuel with sulfur content less than 0.05% by weight, or on diesel fuel with sulfur content not exceeding 3.0% by weight. [District Rule 4801 and Kern County Rule 407], [Federally Enforceable Through Title V]
10. If the IC engine is fired on Air Resources Board regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, the operator shall maintain copies of all fuel invoices and supplier certifications. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
11. If the IC engine is not fired on ARB regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, then the owner or operator shall determine the sulfur content of each delivery of diesel fuel being fired in the IC engine. The sulfur content shall be determined using ASTM method D 2880-71. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1246-266-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

10 MM BTU/HR (WITH TWO 5.0 MMBTU/HR BURNERS) HEATER TREATER.

## PERMIT UNIT REQUIREMENTS

1. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
2. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. Particulate matter emissions shall not exceed 0.1 grain/dscf, calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
4. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072-80, D 3031-81, D 4084-82, D 3246-81 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by ASTM D 1826-88 or D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels. [District Rule 2520, 9.4.2; 4305, 6.2.1; and 4351, 6.2.1], [Federally Enforceable Through Title V]
8. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume as measured on a dry basis over a 15 minute period. To demonstrate compliance with this requirement the operator shall do one of the following: fire the unit only on PUC or FERC regulated natural gas; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels; or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [Kern County Rule 407, District Rule 4301, District Rule 4801, and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. [District Rules 4301, 5.2.2, 5.3, and 5.5 and 2520, 9.4.2], [Federally Enforceable Through Title V]
10. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements of SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
11. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
12. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
13. High pressure regulator shall vent to vapor recovery system S-1246-258 only. [District NSR Rule], [Federally Enforceable Through Title V]
14. Heater treater shall be fired exclusively on pipeline quality natural gas. [District NSR Rule], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-267-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

14.5 MM BTU/HR WATER HEATER - FORMAX LEASE

## **PERMIT UNIT REQUIREMENTS**

1. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (Amended December 16, 1993). [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
2. Copies of all fuel invoices, gas purchase contracts, supplier certifications, and test results to determine compliance with the conditions of this permit shall be maintained. The operator shall record daily amount and type(s) of fuel(s) combusted and all dates on which unit is fired on any noncertified fuel and record specific type of noncertified fuel used. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
3. Particulate matter emissions shall not exceed 0.1 grain/dscf, calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
4. When complying with sulfur emission limits by fuel analysis or by a combination of source testing and fuel analysis, each fuel source shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for a fuel source, then the fuel testing frequency shall be semi-annually. If a semi-annual fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
5. When complying with SO<sub>x</sub> emission limits by testing of stack emissions, testing shall be performed not less than once every 12 months using EPA Method 6B; or Method 8; or, for units using gaseous fuel scrubbed for sulfur pre-combustion, a grab sample analysis by GC-FPD/TCD performed in the laboratory and EPA Method 19 to calculated emissions. Gaseous fuel fired units demonstrating compliance on two consecutive annual source tests shall be tested not less than once every thirty-six months; however, annual source testing shall resume if any test fails to show compliance. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. If the unit is fired on noncertified gaseous fuel and compliance with SO<sub>x</sub> emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072-80, D 3031-81, D 4084-82, D 3246-81 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. If fuel analysis is used to demonstrate compliance with the conditions of this permit, the fuel higher heating value for each fuel shall be certified by third party fuel supplier or determined by ASTM D 1826-88 or D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels. [District Rule 2520, 9.4.2; 4305, 6.2.1; and 4351, 6.2.1], [Federally Enforceable Through Title V]
8. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume as measured on a dry basis over a 15 minute period. To demonstrate compliance with this requirement the operator shall do one of the following: fire the unit only on PUC or FERC regulated natural gas; or test the sulfur content of each fuel source and demonstrate the sulfur content does not exceed 3.3% by weight for gaseous fuels; or determine that the concentration of sulfur compounds in the exhaust does not exceed the concentration limit by a combination of source testing and fuel analysis. [Kern County Rule 407, District Rule 4301, District Rule 4801, and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
9. Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 140 lb/hr, calculated as NO<sub>2</sub>. [District Rules 4301, 5.2.2, 5.3, and 5.5 and 2520, 9.4.2], [Federally Enforceable Through Title V]
10. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements of SJVUAPCD Rules 4201 (Amended December 17, 1992), and 4301 (Amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
11. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera), 402 (Madera), 404 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 405 (Madera), 408 (Fresno, Kern, Tulare, Kings, Stanislaus, Merced, and San Joaquin), 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin), and 408.2 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
12. The requirements of 40 CFR 72.6(b) and 40 CFR 60.40c do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
13. Excess combustion air shall be maintained at no less than 10% unless continuous operation oxygen analyzer/controller is utilized. [District NSR Rule], [Federally Enforceable Through Title V]

## Initial TV Permit

14. Water heater shall be fired exclusively on natural gas or LPG and shall have no provisions for firing on fuel oil. [District NSR Rule], [Federally Enforceable Through Title V]
15. Fuel usage shall be less than 30 billion BTU per calendar year. [District Rule 4305 and District NSR Rule], [Federally Enforceable Through Title V]
16. Permittee shall either tune the unit at least once each calendar year in which it operates by a technician that is qualified in accordance with the procedure described in District Rule 4304, or operate the unit in a manner that maintains exhaust O<sub>2</sub> at less than or equal to 3.00% by volume on a dry basis. [District Rule 4305]
17. Permittee shall maintain accurate records of annual fuel usage, fuel heat content, and name and company of technician (if any) tuning the unit and make such records readily available for District inspection upon request. [District Rules 4305 and 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-268-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

STEAM-ENHANCED CRUDE OIL PRODUCTION WELL OPERATION SERVING 150 STEAM ENHANCED WELLS WITH COMPONENT INSPECTION AND MAINTAINANCE PROGRAM

## **PERMIT UNIT REQUIREMENTS**

1. The crude oil production from wells associated with this permit unit shall not lie within 1000 feet of an air injection well used for in-situ combustion. [District Rule 4407, 2.0, 3.4, and 3.5], [Federally Enforceable Through Title V]
2. The uncontrolled VOC emissions from any well vent shall be reduced by at least 99 percent by weight or, if several steam-enhanced crude oil production well vents are connected to a vapor collection and control system, total uncontrolled VOC emissions shall be reduced by at least 99 percent. [District Rule 4401, 5.1 and 5.2], [Federally Enforceable Through Title V]
3. Operator shall maintain all components of a well vent vapor collection and control system in good repair. Components of the well vent vapor collection and control system shall include all piping, valves, fittings, pumps, compressors, tanks, etc. used to collect, control, store, or dispose of VOC condensate or non-condensable VOCs and which is prior to any blending of VOC condensate with crude oil or blending of non-condensable VOCs with gases to be used as a fuel. [District Rule 4401, 5.3 and 5.3.2], [Federally Enforceable Through Title V]
4. During the time any steam-enhanced crude oil production well is undergoing service or repair while the well is not producing, it shall be exempt from the emission control requirements of District Rule 4401, 5.0 (as amended January 15, 1998). [District Rule 4401, 4.1], [Federally Enforceable Through Title V]
5. All required source testing shall conform to the compliance testing procedures described in District Rule 1081(as amended December 16, 1993). [District Rule 1081 and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
6. The operator shall maintain monitoring records of the date and well identification where steam injection or well stimulation occurs. [District Rule 4401, 6.1], [Federally Enforceable Through Title V]
7. Operator shall affix a readily visible tag bearing the date on which a leak is detected. The tag shall remain in place until the leaking component is repaired. [District Rule 4401, 5.3.1], [Federally Enforceable Through Title V]
8. Operator shall repair each leak within 15 days of detection. The APCO may grant a 10 day extension if the operator demonstrates that the necessary and sufficient actions have and are being taken to correct the leak. [District Rule 4401, 5.3.1], [Federally Enforceable Through Title V]
9. Annual control efficiency compliance tests shall be performed on all vapor collection and control systems used to control emissions from steam-enhanced crude oil production wells. Testing shall be performed by source testers certified by the California Air Resource Board (CARB) during June, July, August or September of each year if the system's control efficiency is dependent upon ambient air temperature. The APCO may waive the requirements of this condition if the vapor control system does not exhaust to atmosphere or if all uncondensed VOC emissions collected by a vapor collection and control system are incinerated in fuel burning equipment, an internal combustion engine, or in a smokeless open flare, and the source's Operating Permit contains adequate periodic monitoring to ensure the source meets 99% control efficiency. [District Rule 4401, 5.1, 5.2 and 6.2.1], [Federally Enforceable Through Title V]
10. The control efficiency of systems designed to control VOC emissions from steam enhanced crude oil production well shall be determined by mass balance based on most stringent of a source test, USEPA approved emission factors for components and number of components; and the efficiency of destruction devices determined by USEPA Method 25, 25a, or 25b as applicable. [District Rule 4401, 6.4.1], [Federally Enforceable Through Title V]
11. VOC content shall be determined using the latest version of ASTM Method E168, E169, or E260 as applicable. Halogenated exempt compounds shall be determined by CARB Method 432. [District Rule 4401, 6.4.2], [Federally Enforceable Through Title V]
12. The source shall perform leak inspections at least annually, using a portable hydrocarbon detection instrument in accordance with USEPA Method 21. [District Rules 2520, 9.4.2 and 4401, 6.4.3], [Federally Enforceable Through Title V]
13. Permittee shall maintain with the permit a current listing of all steam enhanced wells connected to the casing vent control system and shall make such listing readily available for District inspection upon request. [District Rule 1070], [Federally Enforceable Through Title V]
14. TEOR vapor control system includes condensate vessel, condensate pumps, and condensate separator. [District NSR Rule], [Federally Enforceable Through Title V]

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15. TEOR vapor control system includes compressed vapor piping from tank vapor control systems listed in S-1246-55 and '77 to condensate vessel. [District NSR Rule], [Federally Enforceable Through Title V]
16. TEOR vapor control system includes two casing vapor recovery skids consisting of heat exchangers, condensate separators, suction scrubbers, condensate pumps, sliding vane compressors, and lube oil drums. [District NSR Rule], [Federally Enforceable Through Title V]
17. TEOR system shall include piping from vapor recovery skid to steam generators S-1246-252, S-1246-253, and S-1246-254, emergency flare listed in S-1246-258, and two DOGGR-approved wells. [District NSR Rule], [Federally Enforceable Through Title V]
18. Collected vapors shall not be concurrently incinerated in approved incineration devices S-1246-252, S-1246-253, and injected in DOGGR injection wells. [District NSR Rule], [Federally Enforceable Through Title V]
19. Permittee shall cease injection vapors & notify the District immediately if DOGGR injection approval is revoked, denied, terminated, surrendered or altered to disallow injection. [District NSR Rule], [Federally Enforceable Through Title V]
20. Vapor collection network component quantities shall not exceed the following: relief valves, 33; other valves, 1553; connections, 5387. [District NSR Rule], [Federally Enforceable Through Title V]
21. Listing of all steam enhanced wells, including identification of new steam enhanced wells with polish rod boxes subject to BACT I&M program connected to this system, shall be submitted to the District 60 days prior to the permit anniversary. [District NSR Rule], [Federally Enforceable Through Title V]
22. Collected condensate shall be piped via closed piping to produced oil pipeline. [District NSR Rule and Rule 4401], [Federally Enforceable Through Title V]
23. Total number of leaks, as defined by Rule 4401, shall not exceed amount allowed under Rule 4401. [District Rule 4401], [Federally Enforceable Through Title V]
24. Leaks shall be inspected and repaired as specified in Rule 4401, and records of such repairs shall be retained and shall be made available for District inspection upon request. [District Rule 4401], [Federally Enforceable Through Title V]
25. Total VOC emission from this operation shall not exceed 2.20 lbm/hr. [District NSR Rule], [Federally Enforceable Through Title V]
26. An inspection and maintenance program consistent with Rule 4403 shall be implemented and maintained for polish rod stuffing boxes of 115 new wells (identified by annual well roster required by this permit). [District NSR Rule], [Federally Enforceable Through Title V]
27. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following requirements: 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
28. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4401 (Amended December 17, 1992), formerly District Rule 465.1, excluding sections 5.1 and 5.2 for control systems which have been waived from complying with the requirement of section 6.2.1. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
29. The requirements of SJVAPCD Rule 4407 (Adopted May 19, 1994) do not apply to this permit unit. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
30. Authority to Construct S-1246-268-2 shall be implemented prior to or concurrently with this Authority to Construct S-1246-268-3. [District NSR Rule and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-269-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

62.5 MMBTU/HR NATURAL GAS FIRED STEAM GENERATOR WITH FGR AND O2 CONTROLLER.

**PERMIT UNIT REQUIREMENTS**

1. Particulate matter emissions shall not exceed 0.1 grain/dscf, 0.1 grain/dscf calculated to 12% CO<sub>2</sub>, nor 10 lb/hr. [District Rules 4201, 3.1 and 4301, 5.1 and 5.2.3], [Federally Enforceable Through Title V]
2. Unit shall be fired exclusively on PUC-regulated natural gas. [District Rule 4301, 5.2.1, District Rule 4801, Kern County Rule 407, and 40 CFR 60.42c], [Federally Enforceable Through Title V]
3. Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 140 lb/hr. [District Rules 4301, 5.2.2], [Federally Enforceable Through Title V]
4. Operator shall ensure that all required source testing conforms to the compliance testing procedures described in District Rule 1081. [District Rule 1081, and Kern County Rule 108.1], [Federally Enforceable Through Title V]
5. Operator shall maintain copies of fuel invoices and supplier certifications. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
6. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rule 405 (Madera), 408 (Fresno), 408.2 (Merced) and 407.2 (Kern, Tulare, Kings, Stanislaus, and San Joaquin); Rule 402 (Madera), and 404 (all seven remaining counties in the San Joaquin Valley); SJVAPCD Rule 4301. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
7. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rule 405 (Madera), 408 and 409 (Kern), and 408 (all six remaining counties in the San Joaquin Valley); Rule 404 (Madera), 406 (Fresno), and 407 (all six remaining counties in the San Joaquin Valley); SJVAPCD Rule 4801. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
8. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following: SJVUAPCD Rules 4201 and 4301. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
9. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVAPCD Rule 1081, and County Rules 10 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera). [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
10. The requirements of 40 CFR 72.6(b) do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
11. This generator is permitted to operate at the following locations: SE 1/4 Section 36 of Township 12N, Range 24W and SE 1/4 Section 36 of Township 32S, Range 23E. [District NSR Rule], [Federally Enforceable Through Title V]
12. The permittee shall notify the District Compliance Division of each location at which the operation is located in excess of 24 hours. Such notification shall be made no later than 48 hours after starting operation at the location. [District NSR Rule], [Federally Enforceable Through Title V]
13. Steam generator firebox convection section and all flue gas ductwork shall be maintained with no detectable leaks. [District NSR Rule]
14. Sufficient calibration gas for O<sub>2</sub> analyzer shall be available at all times. [District NSR Rule], [Federally Enforceable Through Title V]
15. Natural gas fired emission rate shall not exceed any of the following: PM<sub>10</sub> - 0.005 lb/MMBtu, SO<sub>x</sub> (as SO<sub>2</sub>) - 0.0006 lb/MMBtu, NO<sub>x</sub> (as NO<sub>2</sub>) - 0.036 lb/MMBtu, VOC - 0.003 lb/MMBtu, or CO - 46.6 ppmv @ 3% O<sub>2</sub>. [District NSR Rule and District Rule 4305], [Federally Enforceable Through Title V]
16. Source testing to measure NO<sub>x</sub> and CO emissions shall be conducted not less than once every 12 months, except as provided below. [District Rule 4305 and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. Source testing to measure NO<sub>x</sub> and CO emissions shall be conducted not less than once every 36 months if compliance is demonstrated on two consecutive annual tests. [District Rules 4305, 4351, and 2520, 9.4.2], [Federally Enforceable Through Title V]
18. If permittee fails any compliance demonstration for NO<sub>x</sub> and CO emission limits when testing not less than once every 36 months, compliance with NO<sub>x</sub> and CO emission limits shall be demonstrated not less than once every 12 months. [District Rules 4305, 4351, and 2520, 9.4.2], [Federally Enforceable Through Title V]



## Initial TV Permit

19. Source test results from an individual unit that is identical to this unit, in terms of rated capacity, operational conditions, fuel used, and control method, as approved by the APCO, will satisfy the NOx and CO source testing requirement. [District Rules 4305, 4351, and 2520, 9.4.2], [Federally Enforceable Through Title V]
20. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081], [Federally Enforceable Through Title V]
21. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081], [Federally Enforceable Through Title V]
22. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081], [Federally Enforceable Through Title V]
23. The sample collection shall be conducted under conditions (fuel quality, firing rate, waste gas incineration, air fuel ratio, etc.) expected to result in emissions representative of normal operation. [District Rule 1081], [Federally Enforceable Through Title V]
24. The operational conditions during compliance testing may be imposed as permit requirements. [District Rule 2080], [Federally Enforceable Through Title V]
25. The following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, NOx (lb/MMBtu) - EPA Method 19, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and fuel gas sulfur content - ASTM D3246 or double GC for H2S and mercaptans. [District Rules 1081, 4305, and 4351], [Federally Enforceable Through Title V]
26. The acceptable settings for the flue gas recirculation valve shall be established by testing emissions from this unit or other representative units as approved by the District. The acceptable settings shall be that for which compliance with applicable NOx and CO emissions rates have been demonstrated through source testing. [District Rule 4305 and 2520, 9.4.2], [Federally Enforceable Through Title V]
27. The flue gas recirculation valve settings shall be inspected at least on a weekly basis. [District Rule 4305 and 2520, 9.4.2], [Federally Enforceable Through Title V]
28. The permittee shall maintain records of the date and time of flue gas recirculation valve settings, and the observed setting. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve setting to within the acceptable rate. [District Rule 4305 and 2520, 9.4.2], [Federally Enforceable Through Title V]
29. If the flue gas recirculation valve setting deviates from the acceptable range, the permittee shall notify the District and take corrective action within one (1) hour after detection. If the flue gas recirculation valve settings are not corrected promptly, the permittee shall conduct an emissions test within 60 days, utilizing District-approved test methods, to demonstrate compliance with the applicable emissions limits at the observed flue gas recirculation valve settings. [District Rule 4305 and 2520, 9.4.2], [Federally Enforceable Through Title V]
30. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (amended December 16, 1993), of 3 forty-minute test runs for NOx and CO. This mean shall be multiplied by the appropriate factor. [District Rule 1081 and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
31. The following conditions must be met for representative units to be used to test for NOx and CO emissions for a group of units: 1) all units are initially source tested and emissions from each unit in group are less than 90% of permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of heat input, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
32. All units in a group for which representative units are annually source tested for NOx and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
33. An operating log shall be maintained for each unit of the group. The log shall include, on a monthly basis, the total hours of operation, type and quantity of fuel used, and preventative and corrective maintenance and modifications performed. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
34. The number of representative units source tested for NOx and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated such that in three years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
35. Should any of the representative units exceed the required emission limits of this permit, each of the unit in the group shall conduct emissions testing within 90 days of the failed test. (This requirement shall not supersede a more stringent NSR or PSD permit testing requirement.) [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-270-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

21,000 GALLON, 12' DIA FIXED-ROOF TEST TANK (T-1) WITH VAPOR CONTROL SYSTEM INCLUDING: 10 HP VAPOR COMPRESSOR, 2 GAS PROCESSING UNITS, AND EMERGENCY CONTINGENCY BASIN ALL SHARED WITH S-1246-271, '272, AND '273 (HURLEY-FEE LEASE)

## **PERMIT UNIT REQUIREMENTS**

1. This permit unit shall not be operated unless the owner or operator applies to modify the Title V permit to address the requirements of District Rule 2520, section 9.0 for this permit unit. [District Rule 2520, 9.0], [Federally Enforceable Through Title V]
2. The tank shall be equipped with a fixed roof with no holes or openings. [District NSR Rule], [Federally Enforceable Through Title V]
3. Vapor control system compressor shall activate before tank internal pressure of 2.0 oz./sq.in. is achieved. [District NSR Rule], [Federally Enforceable Through Title V]
4. Make-up gas shall be introduced into tank before tank internal vacuum of 0.5 oz./sq.in. is achieved. [District NSR Rule], [Federally Enforceable Through Title V]
5. Make-up gas shall consist only of PUC regulated gas, produced gas treated in gas processing unit, or a mixture of the aforementioned gases. [District NSR Rule], [Federally Enforceable Through Title V]
6. Tank pressure relief valves shall not activate unless tank internal pressure exceeds 2.0 oz./sq.in. or internal vacuum exceeds 0.5 oz./sq.in. [District NSR Rule], [Federally Enforceable Through Title V]
7. Tank gauging, sampling devices, relief valves, manholes and etc. shall be equipped with resilient gas-tight (as defined in Rule 4623) gaskets and shall remain closed at all times except during gauging or sampling. [District Rule 4623], [Federally Enforceable Through Title V]
8. Tank seams, welds, joints, piping, valves and fittings shall be inspected and maintained in gas-tight condition pursuant to Rule 4623. [District Rule 4623], [Federally Enforceable Through Title V]
9. Tank water draw-off shall consist only of closed piping. [District NSR Rule], [Federally Enforceable Through Title V]
10. Tank shall be equipped with stored liquid temperature indicator. [District Rule 4623], [Federally Enforceable Through Title V]
11. Gas processing units shall utilize Sulfatreat gas processing unit or District approved method (approved in writing) to remove hydrogen sulfide (H<sub>2</sub>S) from produced gas. [District NSR Rule], [Federally Enforceable Through Title V]
12. Gas processing units shall be monitored weekly for H<sub>2</sub>S content of gas after treatment to determine when recharging is required. Weekly monitoring will be conducted when gas processing units are operating. [District NSR Rule], [Federally Enforceable Through Title V]
13. A written record of H<sub>2</sub>S content and recharging dates shall be kept and made readily available for District inspection upon request. [District Rule 1070 and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
14. Crude oil and/or produced fluids shall be received through closed piping from production wells only. [District NSR Rule], [Federally Enforceable Through Title V]
15. True vapor pressure of liquid stored in this permit unit shall not exceed 2.0 psia without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
16. Volatile organic compound (VOC) concentration of vapors in tank shall not exceed 0.863% by weight without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
17. Average daily tank throughput (on annual basis) shall not exceed 500 bbl/day of fluid without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
18. Truck loading rack throughput shall be less than 20,000 gallons per day without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
19. Permittee shall maintain accurate records of throughput, VOC concentration of vapors, true vapor pressure, and temperature of petroleum liquids in the tank, and make such records readily available for District inspection upon request. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

## Initial TV Permit

20. Vapor control efficiency shall be maintained at no less than 99%. [District NSR Rule], [Federally Enforceable Through Title V]
21. Vapor collection system shall discharge only to TEOR vapor control system permit S-1246-274. [District NSR Rule], [Federally Enforceable Through Title V]
22. Emergency contingency basin shall be used only in case of upset and shall be pumped out immediately after correction of upset condition. [District NSR Rule], [Federally Enforceable Through Title V]
23. Emission rate of VOC associated with fugitive components from test tank shall not exceed 0.1 lb/day. [District NSR Rule], [Federally Enforceable Through Title V]
24. Formerly S-1327-9-2. [District NSR Rule], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-271-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

42,000, 21.5' DIA., GALLON FIXED-ROOF LACT TANK (T-3) WITH PIPING TO VAPOR CONTROL SYSTEM AT S-1249-270 (HURLEY-FEE LEASE)

## **PERMIT UNIT REQUIREMENTS**

1. This permit unit shall not be operated unless the owner or operator applies to modify the Title V permit to address the requirements of District Rule 2520, section 9.0 for this permit unit. [District Rule 2520, 9.0], [Federally Enforceable Through Title V]
2. The tank shall be equipped with a fixed roof with no holes or openings. [District NSR Rule], [Federally Enforceable Through Title V]
3. Vapor control system compressor shall activate before the tank internal pressure of 2.0 oz./sq.in. is achieved. [District NSR Rule], [Federally Enforceable Through Title V]
4. Make-up gas shall be introduced into tank before tank internal vacuum of 0.5 oz./sq.in. is achieved. [District NSR Rule], [Federally Enforceable Through Title V]
5. Make-up gas shall consist only of PUC regulated gas, produced gas treated in gas processing unit, or a mixture of the afore mentioned gases. [District NSR Rule], [Federally Enforceable Through Title V]
6. Tank pressure relief valves shall not activate unless tank internal pressure exceeds 2.0 oz./sq.in. or internal vacuum exceeds 0.5 oz./sq.in. [District NSR Rule], [Federally Enforceable Through Title V]
7. Tank gauging, sampling devices, relief valves, manholes and etc. shall be equipped with resilient gas-tight (as defined in Rule 4623) gaskets and shall remain closed at all times except during gauging or sampling. [District Rule 4623], [Federally Enforceable Through Title V]
8. Tank seams, welds, joints, piping, valves and fittings shall be inspected and maintained in gas-tight condition pursuant to Rule 4623. [District Rule 4623], [Federally Enforceable Through Title V]
9. Tank water draw-off shall consist only of closed piping. [District NSR Rule], [Federally Enforceable Through Title V]
10. Tank shall be equipped with stored liquid temperature indicator. [District Rule 4623], [Federally Enforceable Through Title V]
11. True vapor pressure of liquid stored in this permit unit shall not exceed 2.0 psia without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
12. Volatile organic compound (VOC) concentration of vapors in tank shall not exceed 0.863% by weight without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
13. Average daily tank throughput (on annual basis) shall not exceed 1,000 bbl/day of fluid without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
14. Permittee shall maintain accurate records of throughput, VOC concentration of vapors, true vapor pressure and temperature of petroleum liquids in the tank, and make such records readily available for District inspection upon request. [District NSR Rule], [Federally Enforceable Through Title V]
15. Vapor control efficiency shall be maintained at no less than 99%. [District NSR Rule], [Federally Enforceable Through Title V]
16. Tank shall vent only to vapor control system on permit S-1246-270. [District NSR Rule], [Federally Enforceable Through Title V]
17. Emission rate of VOC associated with fugitive components from LACT tank shall not exceed 0.5 lb/day. [District NSR Rule], [Federally Enforceable Through Title V]
18. Formerly S-1327-10-2. [District NSR Rule], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-272-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

42,000 GALLON, 21.5' DIA, FIXED-ROOF REJECT TANK (T-4) WITH PIPING TO VAPOR CONTROL SYSTEM AT S-1246-270 (HURLEY-FEE LEASE)

## **PERMIT UNIT REQUIREMENTS**

1. This permit unit shall not be operated unless the owner or operator applies to modify the Title V permit to address the requirements of District Rule 2520, section 9.0 for this permit unit. [District Rule 2520, 9.0], [Federally Enforceable Through Title V]
2. The tank shall be equipped with a fixed roof with no holes or openings. [District NSR Rule], [Federally Enforceable Through Title V]
3. Vapor control system compressor shall activate before the tank achieves an internal pressure of 2.0 oz./sq.inch. [District NSR Rule], [Federally Enforceable Through Title V]
4. Make-up gas shall be introduced into tank before tank internal vacuum of 0.5 oz./sq.in. is achieved. [District NSR Rule], [Federally Enforceable Through Title V]
5. Make-up gas shall consist only of PUC regulated gas, produced gas treated in gas processing unit, or a mixture of the afore mentioned gases. [District NSR Rule], [Federally Enforceable Through Title V]
6. Tank pressure relief valves shall not activate unless tank internal pressure exceeds 2.0 oz./sq.in. or internal vacuum exceeds 0.5 oz./sq.in. [District NSR Rule], [Federally Enforceable Through Title V]
7. Tank gauging, sampling devices, relief valves, manholes and etc. shall be equipped with resilient gas-tight (as defined in Rule 4623) gaskets and shall remain closed at all times except during gauging or sampling. [District Rule 4623], [Federally Enforceable Through Title V]
8. Tank seams, welds, joints, piping, valves and fittings shall be inspected and maintained in gas-tight condition pursuant to Rule 4623. [District Rule 4623], [Federally Enforceable Through Title V]
9. Tank water draw-off shall consist only of closed piping. [District NSR Rule], [Federally Enforceable Through Title V]
10. Tank shall be equipped with stored liquid temperature indicator. [District Rule 4623], [Federally Enforceable Through Title V]
11. True vapor pressure of liquid stored in this permit unit shall not exceed 2.0 psia without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
12. Volatile organic compound (VOC) concentration of vapors in tank shall not exceed 0.863% by weight without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
13. Average daily tank throughput (on annual basis) shall not exceed 1,000 bbl/day of fluid without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
14. Permittee shall maintain accurate records of throughput, VOC concentration of vapors, true vapor pressure and temperature of petroleum liquids in the tank, and make such records readily available for District inspection upon request. [District NSR Rule], [Federally Enforceable Through Title V]
15. Vapor control efficiency shall be maintained at no less than 99%. [District NSR Rule], [Federally Enforceable Through Title V]
16. Tank shall vent only to vapor control system on permit S-1246-270. [District NSR Rule], [Federally Enforceable Through Title V]
17. Emission rate of VOC associated with fugitive components from reject tank shall not 0.5 lb/day. [District NSR Rule], [Federally Enforceable Through Title V]
18. Formerly PTO S-1327-11-2. [District NSR Rule], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-273-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

21,000 GALLON, 12.5' DIA., FIXED ROOF WATER TANK (T-5) WITH PIPING TO VAPOR CONTROL SYSTEM AT S-1246-270 (HURLEY-FEE LEASE)

## **PERMIT UNIT REQUIREMENTS**

1. This permit unit shall not be operated unless the owner or operator applies to modify the Title V permit to address the requirements of District Rule 2520, section 9.0 for this permit unit. [District Rule 2520, 9.0], [Federally Enforceable Through Title V]
2. The tank shall be equipped with a fixed roof with no holes or openings. [District NSR Rule], [Federally Enforceable Through Title V]
3. Vapor control system compressor shall activate before the tank achieves an internal pressure of 2.0 oz./sq.inch. [District NSR Rule], [Federally Enforceable Through Title V]
4. Make-up gas shall be introduced into tank before tank internal vacuum of 0.5 oz./sq.in. is achieved. [District NSR Rule], [Federally Enforceable Through Title V]
5. Make-up gas shall consist only of PUC regulated gas, produced gas treated in gas processing unit, or a mixture of the afore mentioned gases. [District NSR Rule], [Federally Enforceable Through Title V]
6. Tank pressure relief valves shall not activate unless tank internal pressure exceeds 2.0 oz./sq.in. or internal vacuum exceeds 0.5 oz./sq.in. [District NSR Rule], [Federally Enforceable Through Title V]
7. Tank gauging, sampling devices, relief valves, manholes and etc. shall be equipped with resilient gas-tight (as defined in Rule 4623) gaskets and shall remain closed at all times except during gauging or sampling. [District Rule 4623], [Federally Enforceable Through Title V]
8. Tank seams, welds, joints, piping, valves and fittings shall be inspected and maintained in gas-tight condition pursuant to Rule 4623. [District Rule 4623], [Federally Enforceable Through Title V]
9. Tank water draw-off shall consist only of closed piping. [District NSR Rule], [Federally Enforceable Through Title V]
10. Tank shall be equipped with stored liquid temperature indicator. [District Rule 4623], [Federally Enforceable Through Title V]
11. True vapor pressure of liquid stored in this permit unit shall not exceed 2.0 psia without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
12. Volatile organic compound (VOC) concentration of vapors in tank shall not exceed 0.863% by weight without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
13. Average daily tank throughput (on annual basis) shall not exceed 4,000 bbl/day of fluid without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
14. Permittee shall maintain accurate records of throughput, VOC concentration of vapors, true vapor pressure and temperature of petroleum liquids in the tank, and make such records readily available for District inspection upon request. [District NSR Rule], [Federally Enforceable Through Title V]
15. Vapor control efficiency shall be maintained at no less than 99%. [District NSR Rule], [Federally Enforceable Through Title V]
16. Tank shall vent only to vapor control system on permit S-1246-270. [District NSR Rule], [Federally Enforceable Through Title V]
17. Emission rate of VOC associated with fugitive components from reject tank shall not 1.8 lb/day. [District NSR Rule], [Federally Enforceable Through Title V]
18. Formerly PTO S-1327-12-2. [District NSR Rule], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-274-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

TEOR SYSTEM WITH 25 STEAM DRIVE & 10 CYCLIC WELLS SERVED BY VAPOR CONTROL, SULFATREAT GAS DESULFURIZER, AIR COOLED HEAT EXCHANGER, 2.5 MMBTU/HR HEATER, 1.2 MMBTU/HR HEATER, AND 20 FT, 2.9 MMBTU/HR, AIR-ASSISTED MCGILL FLARE

## **PERMIT UNIT REQUIREMENTS**

1. The crude oil production from wells associated with this permit unit shall not lie within 1000 feet of an air injection well used for in-situ combustion. [District Rule 4407, 2.0, 3.4, and 3.5], [Federally Enforceable Through Title V]
2. The uncontrolled VOC emissions from any well vent shall be reduced by at least 99 percent by weight or, if several steam-enhanced crude oil production well vents are connected to a vapor collection and control system, total uncontrolled VOC emissions shall be reduced by at least 99 percent. [District Rule 4401, 5.1 and 5.2], [Federally Enforceable Through Title V]
3. Operator shall maintain all components of a well vent vapor collection and control system in good repair. Components of the well vent vapor collection and control system shall include all piping, valves, fittings, pumps, compressors, tanks, etc. used to collect, control, store, or dispose of VOC condensate or non-condensable VOCs and which is prior to any blending of VOC condensate with crude oil or blending of non-condensable VOCs with gases to be used as a fuel. [District Rule 4401, 5.3 and 5.3.2], [Federally Enforceable Through Title V]
4. During the time any steam-enhanced crude oil production well is undergoing service or repair while the well is not producing, it shall be exempt from the emission control requirements of District Rule 4401, 5.0 (as amended January 15, 1998). [District Rule 4401, 4.1], [Federally Enforceable Through Title V]
5. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (as amended December 16, 1993). [District Rule 1081 and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
6. The operator shall maintain monitoring records of the date and well identification where steam injection or well stimulation occurs. [District Rule 4401, 6.1], [Federally Enforceable Through Title V]
7. Operator shall affix a readily visible tag bearing the date on which a leak is detected. The tag shall remain in place until the leaking component is repaired. [District Rule 4401, 5.3.1], [Federally Enforceable Through Title V]
8. Operator shall repair each leak within 15 days of detection. The APCO may grant a 10 day extension if the operator demonstrates that the necessary and sufficient actions have and are being taken to correct the leak. [District Rule 4401, 5.3.1], [Federally Enforceable Through Title V]
9. Annual control efficiency compliance tests shall be performed on all vapor collection and control systems used to control emissions from steam-enhanced crude oil production wells. Testing shall be performed by source testers certified by the California Air Resource Board (CARB) during June, July, August or September of each year if the system's control efficiency is dependent upon ambient air temperature. The APCO may waive the requirements of this condition if the vapor control system does not exhaust to atmosphere or if all uncondensed VOC emissions collected by a vapor collection and control system are incinerated in fuel burning equipment, an internal combustion engine, or in a smokeless open flare, and the source's Operating Permit contains adequate periodic monitoring to ensure the source meets 99% control efficiency. [District Rule 4401, 5.1, 5.2 and 6.2.1], [Federally Enforceable Through Title V]
10. The control efficiency of systems designed to control VOC emissions from steam enhanced crude oil production well shall be determined by mass balance based on most stringent of a source test, USEPA approved emission factors for components and number of components; and the efficiency of destruction devices determined by USEPA Method 25, 25a, or 25b as applicable. [District Rule 4401, 6.4.1], [Federally Enforceable Through Title V]
11. VOC content shall be determined using the latest version of ASTM Method E168, E169, or E260 as applicable. Halogenated exempt compounds shall be determined by CARB Method 432. [District Rule 4401, 6.4.2], [Federally Enforceable Through Title V]
12. The source shall perform leak inspections at least annually, using a portable hydrocarbon detection instrument in accordance with USEPA Method 21. [District Rules 2520, 9.4.2 and 4401, 6.4.3], [Federally Enforceable Through Title V]
13. All TEOR waste gas shall be incinerated by flare. [District NSR Rule], [Federally Enforceable Through Title V]
14. Flare visible emissions shall not exceed 1/4 Ringelmann. [District NSR Rule], [Federally Enforceable Through Title V]
15. All TEOR waste gas shall be desulfurized prior to incineration in flare. [District NSR Rule], [Federally Enforceable Through Title V]

## Initial TV Permit

16. The TEOR waste gas flowrate shall not exceed 141 MCFD without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
17. The waste gas desulfurization system shall be equipped with inlet and outlet waste gas flowmeters. [District NSR Rule], [Federally Enforceable Through Title V]
18. The sulfur content (as H<sub>2</sub>S) of the TEOR waste gas prior to incineration shall not exceed 2000 ppm. Sulfur removal efficiency of not less than 95% shall be maintained across the scrubber at all times. [District NSR Rule], [Federally Enforceable Through Title V]
19. Emissions from flare shall not exceed any of the following: PM-10: 0.7 lb/day, SO<sub>x</sub> (as SO<sub>x</sub>): 47.5 lb/day, NO<sub>x</sub> (as NO<sub>2</sub>): 14.2 lb/day, VOC: 0.8 lb/day, or CO: 2.8 lb/day. [District NSR Rule], [Federally Enforceable Through Title V]
20. Emissions from 2.5 MMBTU/hr heater treater shall not exceed any of the following: PM-10: 0.2 lb/day, SO<sub>x</sub> (as SO<sub>2</sub>): 0.2 lb/day, NO<sub>x</sub> (as NO<sub>2</sub>): 5.8 lb/day, VOC: 1.2 lb/day, or CO: 0.5 lb/day. [District NSR Rule], [Federally Enforceable Through Title V]
21. Emissions from 1.2 MMBTU/hr water heater shall not exceed any of the following: PM-10: 0.2 lb/day, SO<sub>x</sub> (as SO<sub>2</sub>): 0.2 lb/day, NO<sub>x</sub> (as NO<sub>2</sub>): 5.8 lb/day, VOC: 1.2 lb/day, or CO: 0.5 lb/day. [District NSR Rule], [Federally Enforceable Through Title V]
22. Fugitive VOC emissions from the entire TEOR vapor control system shall not exceed 79.8 lbm/day. [District NSR Rule], [Federally Enforceable Through Title V]
23. During recharging of the sulfur scrubber, untreated vapors shall not be introduced into the fuel system or vented to the atmosphere. [District NSR Rule], [Federally Enforceable Through Title V]
24. Permittee shall, at least monthly, measure and record sulfur content of TEOR gas entering and exiting desulfurizer, and the flowrate of waste gas entering and exiting the desulfurizer. Permittee shall monitor and record waste gas flow to the flare on a daily basis. Permittee shall make such records available upon request for District inspection. [District NSR Rule and Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
25. Permittee shall maintain with the permit a current listing of all steam enhanced wells connected to the casing vent control system and shall make such listing readily available for District inspection upon request. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
26. The following test method shall be used for fuel gas sulfur content - ASTM D3246 or double GC for H<sub>2</sub>S and mercaptans. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
27. Formerly S-1327-17-4. [District NSR Rule], [Federally Enforceable Through Title V]
28. Total number of leaks from the vapor collection and control system, including condensate handling, shall not exceed 6 leaks at any one time. [District Rule 4401, 5.3], [Federally Enforceable Through Title V]
29. Flares shall be operated with no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours. [40 CFR 60.18(c)(1)], [Federally Enforceable Through Title V]
30. Visible emissions inspection shall be conducted at least annually, using EPA Method 22. The observation period shall be 2 hours. [40 CFR 60.18(f)(1)], [Federally Enforceable Through Title V]
31. A trained observer, as defined in EPA Method 22, shall check visible emissions at least once every two weeks for a period of 15 minutes. If visible emissions are detected at any times during this period, the observation period shall be extended to two hours. A record containing results of these observations shall be maintained, which also includes company name, process unit, observer's name and affiliation, date, estimated wind speed and direction, sky condition, and the observer's location relative to the source and sun. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
32. The flare shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
33. Air-assisted flare shall only be used with the net heating value of the gas being combusted being 300 Btu/scf or greater. [40 CFR 60.18 (c)(3)], [Federally Enforceable Through Title V]
34. The net heating value of the gas being combusted in a flare shall be calculated annually, pursuant to 40 CFR 60.18 (f)(3) and using EPA Method 18, ASTM D1946-77, and ASTM D2382-76. [Subpart 60.18 (f)(3-6)], [Federally Enforceable Through Title V]
35. Air-assisted flares shall be operated with an exit velocity less than V<sub>max</sub>, as determined by the equation specified in 40 CFR 60.18(f)(6). [40 CFR 60.18 (c)(5)], [Federally Enforceable Through Title V]
36. The actual exit velocity of a flare shall be determined by dividing the volumetric flowrate (in units of standard temperature and pressure), as determined by Reference Methods 2, 2A, 2C, or 2D as appropriate; by the unobstructed (free) cross sectional area of the flare tip. [40 CFR Subpart 60.18 (f)(4)], [Federally Enforceable Through Title V]
37. Flares shall be operated with a flame present at all times, and kept in operation when emissions may be vented to them. The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame. [40 CFR 60.18 (c)(2), 60.18 (e), and 60.18 (f)(2)], [Federally Enforceable Through Title V]



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38. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
39. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4401 (Amended January 15, 1998), formerly District Rule 465.1, excluding sections 5.1 and 5.2 for control systems which have been waived from complying with the requirement of section 6.2.1. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
40. The requirements of SJVUAPCD Rule 4407 (Adopted May 19, 1994) do not apply to this permit unit. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-275-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

63,000 GALLON, 22 FT. DIA., FIXED ROOF WASTE WATER TANK (T-6) WITH PIPING TO VAPOR CONTROL SYSTEM AT PERMIT #S-1246-270 (HURLEY-FEE LEASE)

## **PERMIT UNIT REQUIREMENTS**

1. This permit unit shall not be operated unless the owner or operator applies to modify the Title V permit to address the requirements of District Rule 2520, section 9.0 for this permit unit. [District Rule 2520, 9.0], [Federally Enforceable Through Title V]
2. The tank shall be equipped with a fixed roof with no holes or openings. [District NSR Rule], [Federally Enforceable Through Title V]
3. The tank PV valve shall be set to within 10% of the maximum allowable working pressure of the tank. [District Rule 4623], [Federally Enforceable Through Title V]
4. Tank roof, seams, welds, joints, gauge hatches, sample wells, pressure relief valves, etc. shall be maintained in gas-tight (as defined in Rule 4623) condition. [District Rule 4623], [Federally Enforceable Through Title V]
5. Tank shall be equipped with temperature indicator. [District Rule 4623], [Federally Enforceable Through Title V]
6. Vapor control efficiency shall be maintained at no less than 99%. [District NSR Rule], [Federally Enforceable Through Title V]
7. Emission rate of VOC associated with fugitive components from waste water tank shall not exceed 0.4 lb/day. [District NSR Rule], [Federally Enforceable Through Title V]
8. Tank vapors shall vent only to vapor control system on permit S-1246-270. [District NSR Rule], [Federally Enforceable Through Title V]
9. Permittee shall maintain accurate records of true vapor pressure and temperature of petroleum liquids in the tank, and such records shall be made readily available for District inspection upon request for a period of two years. [District NSR Rule], [Federally Enforceable Through Title V]
10. Average daily tank throughput (on annual basis) shall be not exceed 4,000 bbl/day of fluid without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
11. True vapor pressure of liquid stored shall not exceed 2.0 psia without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
12. Formerly S-1327-20-0. [District NSR Rule], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-276-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

42,000 GALLON FIXED ROOF WASH TANK #T-3 SERVED BY VAPOR CONTROL SYSTEM WITH 20 HP COMPRESSOR SHARED WITH TANKS S-1246-277 THROUGH S-1283 (SECTION 36 LEASE).

## **PERMIT UNIT REQUIREMENTS**

1. This permit unit shall not be operated unless the owner or operator applies to modify the Title V permit to address the requirements of District Rule 2520, section 9.0 for this permit unit. [District Rule 2520, 9.0], [Federally Enforceable Through Title V]
2. The tank shall be equipped with a fixed roof with no holes or openings. [District NSR Rule], [Federally Enforceable Through Title V]
3. Vapor control system compressor shall activate before tank internal pressure of 0.13 psig is reached. [District NSR Rule], [Federally Enforceable Through Title V]
4. Make-up gas shall be introduced into tank before tank internal vacuum of 0.03 psig is reached. [District NSR Rule], [Federally Enforceable Through Title V]
5. Make-up gas shall consist only of PUC regulated gas, produced gas treated in gas processing unit, or a combination of both gases. [District NSR Rule], [Federally Enforceable Through Title V]
6. Tank breather vent settings shall be set at 0.03 psig vacuum and 0.13 psig pressure. [District NSR Rule], [Federally Enforceable Through Title V]
7. Tank gauging, sampling devices, relief valves, manholes and etc. shall be equipped with gas-tight (as defined in Rule 4623) gaskets and shall remain closed at all times except during gauging or sampling. [District Rule 4623], [Federally Enforceable Through Title V]
8. Tank seams, welds, joints, piping, valves and fittings shall be inspected and maintained in gas-tight condition pursuant to Rule 4623. [District Rule 4623], [Federally Enforceable Through Title V]
9. Tank shall be equipped with an operational stored liquid temperature indicator. [District Rule 4623], [Federally Enforceable Through Title V]
10. True vapor pressure of liquid stored in this permit unit shall not exceed 3.86 psia without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
11. Permittee shall maintain accurate records of true vapor pressure and temperature of petroleum liquids in the tank, and such records shall be made readily available for District inspection upon request for a period of two years. [District NSR Rule and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
12. Vapor control efficiency shall be maintained at no less than 99%. [District NSR Rule], [Federally Enforceable Through Title V]
13. Collected vapors shall discharge to TEOR vapor control system identified in S-1246-284. [District NSR Rule], [Federally Enforceable Through Title V]
14. Wash tank shall be operated at constant level. [District NSR Rule], [Federally Enforceable Through Title V]
15. Formerly S-1327-21-1. [District NSR Rule], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-277-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

42,000 GALLON FIXED ROOF STOCK/SHIPPING TANK #T-1 WITH TRUCK LOADOUT SERVED BY VAPOR CONTROL SYSTEM IDENTIFIED IN S-1246-276 (SECTION 36 LEASE).

## **PERMIT UNIT REQUIREMENTS**

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1. This permit unit shall not be operated unless the owner or operator applies to modify the Title V permit to address the requirements of District Rule 2520, section 9.0 for this permit unit. [District Rule 2520, 9.0], [Federally Enforceable Through Title V]
  2. The tank shall be equipped with a fixed roof with no holes or openings. [District NSR Rule], [Federally Enforceable Through Title V]
  3. Vapor control system compressor shall activate before tank internal pressure of 0.13 psig is reached. [District NSR Rule], [Federally Enforceable Through Title V]
  4. Make-up gas shall be introduced into tank before tank internal vacuum of 0.03 psig is reached. [District NSR Rule], [Federally Enforceable Through Title V]
  5. Make-up gas shall consist only of PUC regulated gas, produced gas treated in gas processing unit, or a combination of both gases. [District NSR Rule], [Federally Enforceable Through Title V]
  6. Tank breather vent settings shall be set at 0.03 psig vacuum and 0.13 psig pressure. [District NSR Rule], [Federally Enforceable Through Title V]
  7. Tank gauging, sampling devices, relief valves, manholes and etc. shall be equipped with gas-tight (as defined in Rule 4623) gaskets and shall remain closed at all times except during gauging or sampling. [District Rule 4623], [Federally Enforceable Through Title V]
  8. Tank seams, welds, joints, piping, valves and fittings shall be inspected and maintained in gas-tight condition pursuant to Rule 4623. [District Rule 4623], [Federally Enforceable Through Title V]
  9. Tank shall be equipped with an operational stored liquid temperature indicator. [District Rule 4623], [Federally Enforceable Through Title V]
  10. True vapor pressure of liquid stored in this permit unit shall not exceed 3.86 psia without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
  11. Average daily tank throughput (on annual basis) shall not exceed 1047 bbl/day of fluid without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
  12. Permittee shall maintain accurate records of tank throughput, true vapor pressure and temperature of petroleum liquids in the tank, and such records shall be made readily available for District inspection upon request. [District NSR Rule and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  13. Vapor control efficiency shall be maintained at no less than 99%. [District NSR Rule], [Federally Enforceable Through Title V]
  14. Formerly S-1327-22-1. [District NSR Rule], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-278-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

42,000 GALLON FIXED ROOF STOCK/SHIPPING TANK #T-2 WITH TRUCK LOADOUT SERVED BY VAPOR CONTROL SYSTEM IDENTIFIED IN S-1246-276 (SECTION 36 LEASE).

## **PERMIT UNIT REQUIREMENTS**

1. This permit unit shall not be operated unless the owner or operator applies to modify the Title V permit to address the requirements of District Rule 2520, section 9.0 for this permit unit. [District Rule 2520, 9.0], [Federally Enforceable Through Title V]
2. The tank shall be equipped with a fixed roof with no holes or openings. [District NSR Rule], [Federally Enforceable Through Title V]
3. Vapor control system compressor shall activate before tank internal pressure of 0.13 psig is reached. [District NSR Rule], [Federally Enforceable Through Title V]
4. Make-up gas shall be introduced into tank before tank internal vacuum of 0.03 psig is reached. [District NSR Rule], [Federally Enforceable Through Title V]
5. Make-up gas shall consist only of PUC regulated gas, produced gas treated in gas processing unit, or a combination of both gases. [District NSR Rule], [Federally Enforceable Through Title V]
6. Tank breather vent settings shall be set at 0.03 psig vacuum and 0.13 psig pressure. [District NSR Rule], [Federally Enforceable Through Title V]
7. Tank gauging, sampling devices, relief valves, manholes and etc. shall be equipped with gas-tight (as defined in Rule 4623) gaskets and shall remain closed at all times except during gauging or sampling. [District Rule 4623], [Federally Enforceable Through Title V]
8. Tank seams, welds, joints, piping, valves and fittings shall be inspected and maintained in gas-tight condition pursuant to Rule 4623. [District Rule 4623], [Federally Enforceable Through Title V]
9. Tank shall be equipped with an operational stored liquid temperature indicator. [District Rule 4623], [Federally Enforceable Through Title V]
10. True vapor pressure of liquid stored in this permit unit shall not exceed 3.86 psia without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
11. Average daily tank throughput (on annual basis) shall not exceed 1047 bbl/day of fluid without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
12. Permittee shall maintain accurate records of tank throughput, true vapor pressure and temperature of petroleum liquids in the tank, and such records shall be made readily available for District inspection upon request. [District NSR Rule and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. Vapor control efficiency shall be maintained at no less than 99%. [District NSR Rule], [Federally Enforceable Through Title V]
14. Formerly S-1327-23-1. [District NSR Rule], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-279-2

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

42,000 GALLON FIXED ROOF WASTE WATER TANK #T-7 SERVED BY VAPOR CONTROL SYSTEM IDENTIFIED IN S-1246-276 (SECTION 36 LEASE).

## **PERMIT UNIT REQUIREMENTS**

1. This permit unit shall not be operated unless the owner or operator applies to modify the Title V permit to address the requirements of District Rule 2520, section 9.0 for this permit unit. [District Rule 2520, 9.0], [Federally Enforceable Through Title V]
2. The tank shall be equipped with a fixed roof with no holes or openings. [District NSR Rule], [Federally Enforceable Through Title V]
3. Vapor control system compressor shall activate before tank internal pressure of 0.13 psig is reached. [District NSR Rule], [Federally Enforceable Through Title V]
4. Make-up gas shall be introduced into tank before tank internal vacuum of 0.03 psig is reached. [District NSR Rule], [Federally Enforceable Through Title V]
5. Make-up gas shall consist only of PUC regulated gas, produced gas treated in gas processing unit, or a combination of both gases. [District NSR Rule], [Federally Enforceable Through Title V]
6. Tank breather vent settings shall be set at 0.03 psig vacuum and 0.13 psig pressure. [District NSR Rule], [Federally Enforceable Through Title V]
7. Tank gauging, sampling devices, relief valves, manholes and etc. shall be equipped with gas-tight (as defined in Rule 4623) gaskets and shall remain closed at all times except during gauging or sampling. [District Rule 4623], [Federally Enforceable Through Title V]
8. Tank seams, welds, joints, piping, valves and fittings shall be inspected and maintained in gas-tight condition pursuant to Rule 4623. [District Rule 4623], [Federally Enforceable Through Title V]
9. Tank shall be equipped with an operational stored liquid temperature indicator. [District Rule 4623], [Federally Enforceable Through Title V]
10. True vapor pressure of liquid stored in this permit unit shall not exceed 3.52 psia without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
11. Average daily tank throughput (on annual basis) shall not exceed 10472 bbl/day of fluid without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
12. Permittee shall maintain accurate records of tank throughput, true vapor pressure and temperature of petroleum liquids in the tank, and such records shall be made readily available for District inspection upon request. [District NSR Rule and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. Vapor control efficiency shall be maintained at no less than 99%. [District NSR Rule], [Federally Enforceable Through Title V]
14. Formerly S-1327-24-1. [District NSR Rule], [Federally Enforceable Through Title V]

**Initial TV Permit**  
**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-280-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

21,000 GALLON FIXED ROOF STOCK TANK #T-8 WITH TRUCK LOADOUT SERVED BY VAPOR CONTROL SYSTEM IDENTIFIED IN S-1246-276.

## **PERMIT UNIT REQUIREMENTS**

1. This permit unit shall not be operated unless the owner or operator applies to modify the Title V permit to address the requirements of District Rule 2520, section 9.0 for this permit unit. [District Rule 2520, 9.0], [Federally Enforceable Through Title V]
2. The tank shall be equipped with a fixed roof with no holes or openings. [District NSR Rule], [Federally Enforceable Through Title V]
3. Vapor control system compressor shall activate before tank internal pressure of 0.13 psig is reached. [District NSR Rule], [Federally Enforceable Through Title V]
4. Make-up gas shall be introduced into tank before tank internal vacuum of 0.03 psig is reached. [District NSR Rule], [Federally Enforceable Through Title V]
5. Make-up gas shall consist only of PUC regulated gas, produced gas treated in gas processing unit, or a combination of both gases. [District NSR Rule], [Federally Enforceable Through Title V]
6. Tank breather vent settings shall be set at 0.03 psig vacuum and 0.13 psig pressure. [District NSR Rule], [Federally Enforceable Through Title V]
7. Tank gauging, sampling devices, relief valves, manholes and etc. shall be equipped with gas-tight (as defined in Rule 4623) gaskets and shall remain closed at all times except during gauging or sampling. [District Rule 4623], [Federally Enforceable Through Title V]
8. Tank seams, welds, joints, piping, valves and fittings shall be inspected and maintained in gas-tight condition pursuant to Rule 4623. [District Rule 4623], [Federally Enforceable Through Title V]
9. Tank shall be equipped with an operational stored liquid temperature indicator. [District Rule 4623], [Federally Enforceable Through Title V]
10. True vapor pressure of liquid stored in this permit unit shall not exceed 4.62 psia without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
11. Average daily tank throughput (on annual basis) shall not exceed 6075 bbl/day of fluid without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
12. Permittee shall maintain accurate records of tank throughput, true vapor pressure and temperature of petroleum liquids in the tank, and such records shall be made readily available for District inspection upon request. [District NSR Rule and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. Vapor control efficiency shall be maintained at no less than 99%. [District NSR Rule], [Federally Enforceable Through Title V]
14. Formerly S-1327-25-1. [District NSR Rule], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-281-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

42,000 GALLON FIXED ROOF EMERGENCY STANDBY TANK #T-4 SERVED BY VAPOR CONTROL SYSTEM LISTED ON S-1246-276

**PERMIT UNIT REQUIREMENTS**

1. This permit unit shall not be operated unless the owner or operator applies to modify the Title V permit to address the requirements of District Rule 2520, section 9.0 for this permit unit. [District Rule 2520, 9.0], [Federally Enforceable Through Title V]
2. The tank shall be equipped with a fixed roof with no holes or openings. [District NSR Rule], [Federally Enforceable Through Title V]
3. Vapor control system compressor shall activate before tank internal pressure of 0.13 psig is reached. [District NSR Rule], [Federally Enforceable Through Title V]
4. Make-up gas shall be introduced into tank before tank internal vacuum of 0.03 psig is reached. [District NSR Rule], [Federally Enforceable Through Title V]
5. Make-up gas shall consist only of PUC regulated gas, produced gas treated in gas processing unit, or a combination of both gases. [District NSR Rule], [Federally Enforceable Through Title V]
6. Tank breather vent settings shall be set at 0.03 psig vacuum and 0.13 psig pressure. [District NSR Rule], [Federally Enforceable Through Title V]
7. Tank gauging, sampling devices, relief valves, manholes and etc. shall be equipped with gas-tight (as defined in Rule 4623) gaskets and shall remain closed at all times except during gauging or sampling. [District Rule 4623], [Federally Enforceable Through Title V]
8. Tank seams, welds, joints, piping, valves and fittings shall be inspected and maintained in gas-tight condition pursuant to Rule 4623. [District Rule 4623], [Federally Enforceable Through Title V]
9. Tank shall be equipped with an operational stored liquid temperature indicator. [District Rule 4623], [Federally Enforceable Through Title V]
10. True vapor pressure of liquid stored in this permit unit shall not exceed 3.52 psia without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
11. Average daily tank throughput (on annual basis) shall not exceed 86 bbl/day of fluid without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
12. Permittee shall maintain accurate records of tank throughput, true vapor pressure and temperature of petroleum liquids in the tank, and such records shall be made readily available for District inspection upon request. [District NSR Rule and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. Vapor control efficiency shall be maintained at no less than 99%. [District NSR Rule], [Federally Enforceable Through Title V]
14. Formerly S-1327-26-1. [District NSR Rule], [Federally Enforceable Through Title V]



**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-282-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

21,000 GALLON FIXED ROOF CRUDE OIL STOCK TANK #T-5 SERVED BY VAPOR CONTROL SYSTEM LISTED ON S-1246-276

## **PERMIT UNIT REQUIREMENTS**

1. This permit unit shall not be operated unless the owner or operator applies to modify the Title V permit to address the requirements of District Rule 2520, section 9.0 for this permit unit. [District Rule 2520, 9.0], [Federally Enforceable Through Title V]
2. The tank shall be equipped with a fixed roof with no holes or openings. [District NSR Rule], [Federally Enforceable Through Title V]
3. Vapor control system compressor shall activate before tank internal pressure of 0.13 psig is reached. [District NSR Rule], [Federally Enforceable Through Title V]
4. Make-up gas shall be introduced into tank before tank internal vacuum of 0.03 psig is reached. [District NSR Rule], [Federally Enforceable Through Title V]
5. Make-up gas shall consist only of PUC regulated gas, produced gas treated in gas processing unit, or a combination of both gases. [District NSR Rule], [Federally Enforceable Through Title V]
6. Tank breather vent settings shall be set at 0.03 psig vacuum and 0.13 psig pressure. [District NSR Rule], [Federally Enforceable Through Title V]
7. Tank gauging, sampling devices, relief valves, manholes and etc. shall be equipped with gas-tight (as defined in Rule 4623) gaskets and shall remain closed at all times except during gauging or sampling. [District Rule 4623], [Federally Enforceable Through Title V]
8. Tank seams, welds, joints, piping, valves and fittings shall be inspected and maintained in gas-tight condition pursuant to Rule 4623. [District Rule 4623], [Federally Enforceable Through Title V]
9. Tank shall be equipped with an operational stored liquid temperature indicator. [District Rule 4623], [Federally Enforceable Through Title V]
10. True vapor pressure of liquid stored in this permit unit shall not exceed 3.52 psia without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
11. Average daily tank throughput (on annual basis) shall not exceed 1700 bbl/day of fluid without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
12. Permittee shall maintain accurate records of tank throughput, true vapor pressure and temperature of petroleum liquids in the tank, and such records shall be made readily available for District inspection upon request. [District NSR Rule and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
13. Vapor control efficiency shall be maintained at no less than 99%. [District NSR Rule], [Federally Enforceable Through Title V]
14. Formerly S-1327-27-1. [District NSR Rule], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-283-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

TEOR SYSTEM WITH UP TO 100 STEAM DRIVE WELLS, LIQUID KNOCKOUTS, CONDENSATE TANK AND CHEMSWEET GAS PROCESSING SCRUBBER - ALSO AT SEC. 31, T32S, R24E

## **PERMIT UNIT REQUIREMENTS**

1. The crude oil production from wells associated with this permit unit shall not lie within 1000 feet of an air injection well used for in-situ combustion. [District Rule 4407, 2.0, 3.4, and 3.5], [Federally Enforceable Through Title V]
2. The uncontrolled VOC emissions from any well vent shall be reduced by at least 99 percent by weight or, if several steam-enhanced crude oil production well vents are connected to a vapor collection and control system, total uncontrolled VOC emissions shall be reduced by at least 99 percent. [District Rule 4401, 5.1 and 5.2], [Federally Enforceable Through Title V]
3. Operator shall maintain all components of a well vent vapor collection and control system in good repair. Components of the well vent vapor collection and control system shall include all piping, valves, fittings, pumps, compressors, tanks, etc. used to collect, control, store, or dispose of VOC condensate or non-condensable VOCs and which is prior to any blending of VOC condensate with crude oil or blending of non-condensable VOCs with gases to be used as a fuel. [District Rule 4401, 5.3 and 5.3.2], [Federally Enforceable Through Title V]
4. During the time any steam-enhanced crude oil production well is undergoing service or repair while the well is not producing, it shall be exempt from the emission control requirements of District Rule 4401, 5.0 (as amended January 15, 1998). [District Rule 4401, 4.1], [Federally Enforceable Through Title V]
5. All required source testing shall conform to the compliance testing procedures described in District Rule 1081(as amended December 16, 1993). [District Rule 1081 and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)], [Federally Enforceable Through Title V]
6. The operator shall maintain monitoring records of the date and well identification where steam injection or well stimulation occurs. [District Rule 4401, 6.1], [Federally Enforceable Through Title V]
7. Operator shall affix a readily visible tag bearing the date on which a leak is detected. The tag shall remain in place until the leaking component is repaired. [District Rule 4401, 5.3.1], [Federally Enforceable Through Title V]
8. Operator shall repair each leak within 15 days of detection. The APCO may grant a 10 day extension if the operator demonstrates that the necessary and sufficient actions have and are being taken to correct the leak. [District Rule 4401, 5.3.1], [Federally Enforceable Through Title V]
9. Annual control efficiency compliance tests shall be performed on all vapor collection and control systems used to control emissions from steam-enhanced crude oil production wells. Testing shall be performed by source testers certified by the California Air Resource Board (CARB) during June, July, August or September of each year if the system's control efficiency is dependent upon ambient air temperature. The APCO may waive the requirements of this condition if the vapor control system does not exhaust to atmosphere or if all uncondensed VOC emissions collected by a vapor collection and control system are incinerated in fuel burning equipment, an internal combustion engine, or in a smokeless open flare, and the source's Operating Permit contains adequate periodic monitoring to ensure the source meets 99% control efficiency. [District Rule 4401, 5.1, 5.2 and 6.2.1], [Federally Enforceable Through Title V]
10. The control efficiency of systems designed to control VOC emissions from steam enhanced crude oil production well shall be determined by mass balance based on most stringent of a source test, USEPA approved emission factors for components and number of components; and the efficiency of destruction devices determined by USEPA Method 25, 25a, or 25b as applicable. [District Rule 4401, 6.4.1], [Federally Enforceable Through Title V]
11. VOC content shall be determined using the latest version of ASTM Method E168, E169, or E260 as applicable. Halogenated exempt compounds shall be determined by CARB Method 432. [District Rule 4401, 6.4.2], [Federally Enforceable Through Title V]
12. The source shall perform leak inspections at least annually, using a portable hydrocarbon detection instrument in accordance with USEPA Method 21. [District Rules 2520, 9.4.2 and 4401, 6.4.3], [Federally Enforceable Through Title V]
13. Leaks shall be inspected and repaired as specified in Rule 4401. [District Rule 4401], [Federally Enforceable Through Title V]
14. Permittee shall maintain with the permit a current roster of all wells connected to this collection system and a list of the fugitive components involved, and such roster shall be made readily available for District inspection upon request. [District Rules 4401], [Federally Enforceable Through Title V]

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15. Total number of leaks from the well vent vapor control system, including condensate handling, shall not exceed 8 leaks at any one time. [District Rule 4401], [Federally Enforceable Through Title V]
16. Collected vapors shall discharge only to Chemsweet gas processing scrubber prior to vapor combustion in District approved incineration devices. [District Rules 2020 and District Rule 4801], [Federally Enforceable Through Title V]
17. Collected vapors shall be incinerated in permit-exempt 3.5 MMBtu/hr boiler & 2.5 MMBtu/hr heater treater, flare S-1246-285, or other District approved incineration devices. [District Rule 4401], [Federally Enforceable Through Title V]
18. Chemsweet gas processing scrubber shall be operated to maintain continued compliance with gas fuel sulfur content of 0.75 gr S/100 scf of fuel gas. [District Rules 2020 and District Rule 4801], [Federally Enforceable Through Title V]
19. Chemsweet gas processing units shall be monitored weekly for H<sub>2</sub>S content of gas after treatment to determine when recharging is required. Weekly monitoring shall be conducted when gas processing units are operating. [District NSR Rule], [Federally Enforceable Through Title V]
20. Permittee shall maintain a written record of H<sub>2</sub>S content and recharging dates and such records shall be made readily available for District inspection upon request. [District Rule 1070 and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
21. Emission rate of VOC associated with fugitive emissions from TEOR vapor control system shall not exceed 0.045 lb/well-day. [District NSR Rule], [Federally Enforceable Through Title V]
22. VOC emission rate from fugitive components associated with well head casing vent system, polish rods and condensate handling shall not exceed 4.5 lb/day as documented by component count and table M-1 of publication API 4322. [District NSR Rule], [Federally Enforceable Through Title V]
23. VOC emissions from this unit and unit S-1246-284 combined shall not exceed 5.7 lb/day. [District NSR Rule], [Federally Enforceable Through Title V]
24. Permittee shall maintain daily records of the number and type of wells operating under each TEOR operation, S-1246-283 and '-284, and shall make such records available for District inspection upon request. [District NSR Rule], [Federally Enforceable Through Title V]
25. Formerly S-1327-28-1. [District NSR Rule], [Federally Enforceable Through Title V]
26. The following test method shall be used for fuel gas sulfur content - ASTM D3246 or double GC for H<sub>2</sub>S and mercaptans. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
27. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera). A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
28. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4401 (Amended January 15, 1998), formerly District Rule 465.1, excluding sections 5.1 and 5.2 for control systems which have been waived from complying with the requirement of section 6.2.1. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
29. The requirements of SJVUAPCD Rule 4407 (Adopted May 19, 1994) do not apply to this permit unit. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

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**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-284-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

THERMALLY ENHANCED OIL RECOVERY OPERATION WITH UP TO 24 CYCLIC WELLS CONTROLLED BY CLOSED CASING VENTS (ALSO AT SEC. 31, T32S, R24E)

## **PERMIT UNIT REQUIREMENTS**

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1. The crude oil production from wells associated with this permit unit shall not lie within 1000 feet of an air injection well used for in-situ combustion. [District Rule 4407, 2.0, 3.4, and 3.5], [Federally Enforceable Through Title V]
  2. Wells authorized by this permit shall comply with all applicable requirements of Rule 4401. [District Rule 4401], [Federally Enforceable Through Title V]
  3. All wells with closed casing vents to comply with Rule 4401 shall be served only by production facilities equipped with District approved emission control systems achieving at least 99% vapor control. [District NSR Rule], [Federally Enforceable Through Title V]
  4. Emission rate of VOC associated with fugitive emissions from TEOR vapor control system shall not exceed 0.167 lb/well-day. [District NSR Rule], [Federally Enforceable Through Title V]
  5. Permittee shall maintain a current well roster of all closed vent wells, and such roster shall be made readily available for District inspection upon request. [District NSR Rule], [Federally Enforceable Through Title V]
  6. VOC emissions from this unit and unit S-1246-283 combined shall not exceed 5.7 lb/day. [District NSR Rule], [Federally Enforceable Through Title V]
  7. Permittee shall maintain daily records of the number and type of wells operating under each TEOR operation, S-1246-283 and S-1246-284, and shall make such records available for District inspection upon request. [District NSR Rule], [Federally Enforceable Through Title V]
  8. Formerly PTO S-1327-29-0. [District NSR Rule], [Federally Enforceable Through Title V]
  9. Compliance with permit conditions in the Title V permit shall be deemed compliance with SJVUAPCD Rule 4401 (Amended January 15, 1998), formerly District Rule 465.1, excluding sections 5.1 and 5.2 for control systems which have been waived from complying with the requirement of section 6.2.1. A permit shield is granted from these requirements. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]
  10. The requirements of SJVUAPCD Rule 4407 (Adopted May 19, 1994) do not apply to this permit unit. A permit shield is granted from this requirement. [District Rule 2520, 13.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-1246-285-1

**EXPIRATION DATE:** 03/31/2005

**EQUIPMENT DESCRIPTION:**

2.9 MMBTU/HR FLARE SERVING COLLECTED VAPORS FROM TEOR OPERATION S-1246-283.

## PERMIT UNIT REQUIREMENTS

1. Only propane or PUC quality natural gas shall be used as pilot fuel. [District NSR Rule], [Federally Enforceable Through Title V]
2. Flare shall be equipped with provisions for smokeless combustion, i.e. no visible emissions in excess of 5% opacity. [District NSR Rule], [Federally Enforceable Through Title V]
3. Flare shall only incinerate collected vapors from TEOR operation S-1246-283. [District NSR Rule], [Federally Enforceable Through Title V]
4. Emission rates shall not exceed any of the following: PM<sub>10</sub>: 0.012 lb/MMBtu, NO<sub>x</sub> (as NO<sub>2</sub>): 0.10 lb/MMBtu, VOC: 0.004 lb/MMBtu or CO: 0.021 lb/MMBtu. [District NSR Rule], [Federally Enforceable Through Title V]
5. Total amount of TEOR vapors incinerated in the flare shall not exceed 69.6 MMBtu/day. [District NSR Rule], [Federally Enforceable Through Title V]
6. Permittee shall maintain accurate records of TEOR gas heating value (sampled at least once per quarter) and daily amount of TEOR gas burned, and such records shall be made readily available for District inspection upon request. [District NSR Rule], [Federally Enforceable Through Title V]
7. Formerly S-1327-30-1. [District NSR Rule], [Federally Enforceable Through Title V]
8. Flares shall be operated with no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours. [40 CFR 60.18(c)(1)], [Federally Enforceable Through Title V]
9. Visible emissions inspection shall be conducted at least annually, using EPA Method 22. The observation period shall be 2 hours. [40 CFR 60.18(f)(1)], [Federally Enforceable Through Title V]
10. A trained observer, as defined in EPA Method 22, shall check visible emissions at least once every two weeks for a period of 15 minutes. If visible emissions are detected at any times during this period, the observation period shall be extended to two hours. A record containing results of these observations shall be maintained, which also includes company name, process unit, observer's name and affiliation, date, estimated wind speed and direction, sky condition, and the observer's location relative to the source and sun. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
11. The flare shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
12. Flares shall only be used with the net heating value of the gas being combusted being 200 Btu/scf or greater. [40 CFR 60.18 (c)(3)], [Federally Enforceable Through Title V]
13. The net heating value of the gas being combusted in a flare shall be calculated annually, pursuant to 40 CFR 60.18 (f)(3) and using EPA Method 18, ASTM D1946-77, and ASTM D2382-76. [Subpart 60.18 (f)(3-6)], [Federally Enforceable Through Title V]
14. Non-assisted flare shall be designed and operated with an exit velocity, as determined by the methods specified in 40 CFR 60.18 (f)(4) of A) less than 60 ft/sec, B) equal to or greater than 60 ft/sec, but less than 400 ft/sec, if the net heating value of gas being combusted is greater than 1,000 Btu/scf, or C) less than the V<sub>max</sub>, as determined by the method specified in 40 CFR 60.18 (f)(5), and less than 400 ft/sec, if the net heating value of gas being combusted is greater than 200 Btu/scf. [40 CFR 60.18 (c)(4)(i), (ii), and (iii).], [Federally Enforceable Through Title V]
15. The actual exit velocity of a flare shall be determined by dividing the volumetric flowrate (in units of standard temperature and pressure), as determined by Reference Methods 2, 2A, 2C, or 2D as appropriate; by the unobstructed (free) cross sectional area of the flare tip. [40 CFR Subpart 60.18 (f)(4)], [Federally Enforceable Through Title V]
16. Flares shall be operated with a flame present at all times, and kept in operation when emissions may be vented to them. The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame. [40 CFR 60.18 (c)(2), 60.18 (e), and 60.18 (f)(2)], [Federally Enforceable Through Title V]

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